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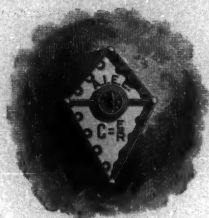
TRANSACTIONS

OF THE

AMERICAN INSTITUTE

OF

ELECTRICAL ENGINEERS.



CATALOGUE OF MEMBERS.

Revised to February 1, 1897.

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AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.

CATALOGUE OF MEMBERS.

FEBRUARY 1ST, 1897.

HONORARY MEMBERS.

Name.	Address.	Date of Membership.
KELVIN, <i>Lord</i> ,	<i>LL.D., F.R.S.S.L. and E.</i> The University, Glasgow, Scotland,	{ H.M. May 17, 1893
PREECE, WM. H. <i>F.R.S.</i>	Electrician, General Post Office, London, Eng. Residence, Gothic Lodge, Wimbledon.	{ H.M. Oct. 21, 1884
Total, 2.		

MEMBERS.

ABBOTT, ARTHUR V.	Chief Engineer, Chicago Telephone Co., 203 Washington St., Chicago, Ill.	{ A Oct. 21, 1890 M Jan. 16, 1895
ACHESON, EDW. G.	President, The Carborundum Co., Niagara Falls, N. Y.	{ A Jan. 3, 1888 M May 1, 1888
ADAMS, ALTON D.	Electrical Engineer, 620 Atlantic Ave., Boston, Mass.	{ A April 18, 1893 M Jan. 17, 1894
AHEARN, T.	Ahearn & Soper, Electrical Supplies, Ottawa, Ont.	{ A July 12, 1887 M Sept. 6, 1887
ALBRIGHT, H. FLEETWOOD	Electrical Engineer, Western Electric Co., New York; residence, 60 Sayre St., Elizabeth, N. J.	{ A Sept. 27, 1892 M June 20, 1894
ALMON, G. H.	Electrical Engineer and Contractor, 136 Liberty St., New York City, and 620 Atlantic Ave., Boston, Mass.	{ A Sept. 20, 1893 M Mar. 21, 1894
ANDREWS, WM. S.	Manager Central Station Sales, General Electric Co., Schenectady, N. Y.	{ A Mar. 5, 1889 M April 22, 1896
ANTHONY, PROF. W. A.	(<i>Past President.</i>) Consulting Electrician, Temple Court, New York, N. Y.; residence, 675 High St., Newark, N. J.	{ A Dec. 9, 1884 M Jan. 6, 1885

Name.	Address.	Date of Membership.
ARNOLD, BION J.	(Manager.) Consulting Electrical Engineer, 1541 Marquette Bldg. and 4128 Prairie Ave., Chicago, Ill.	{ A Oct. 25, 1892 M Nov. 15, 1893
AYER, JAMES I.	General Manager American Electric Heating Corporation, 611 Sears Building, Boston, Mass.	{ A May 19, 1891 M April 19, 1892
AYRES, BROWN	Professor of Physics and Electrical Engineering, Tulane University, New Orleans, La.	{ A Dec. 16, 1891 M Mar. 15, 1892
BADT, LIEUT. FRANCIS B.	Electrical Engineer, Siemens & Halske Electric Co. of America, 1215 Monadnock Block and 6506 Lafayette Ave., (Englewood), Chicago, Ill.	{ A April 19, 1892 M Mar. 25, 1896
BAILLARD, E. V.	Manufacturer of Electrical Instruments and Fine Machinery, 106 Liberty St., New York City.	{ A Dec. 3, 1889 M Jan. 16, 1895
BALDWIN, BERT L.	Mechanical and Electrical Engineer, The Cincinnati Street R'way Co., 72 Perin Bldg., Cincinnati, O.	{ A April 22, 1896 M Nov. 18, 1896
BATCHELOR, CHAS.	Electrical Engineer, 33 West 25th St., New York City.	{ A June 8, 1887 M July 12, 1887
BATES, J. H.	Assistant Engineer and Draughtsman, with C. J. Bates & Co., 126 Liberty St., New York City, and 321 Hudson St., Hoboken, N. J.	{ A Sept. 6, 1887 M Oct. 1, 1889
BAYLIS, ROBERT NELSON	Electrical Engineer, The Walker Manufacturing Co., Cleveland, O.	{ A Oct. 1, 1889 M May 17, 1892
BEDELL, DR. FREDERICK	Assistant Professor in Physics, Cornell University, Ithaca, N. Y.	{ A April 21, 1891 M May 19, 1896
BELL, PROF. A. GRAHAM	(Past President.) 1331 Conn. Ave., Washington, D. C., and Baddeck, N. S.	{ A April 15, 1884 M Oct. 21, 1884
BELL, DR. LOUIS	Electrical Engineer, Boston, Mass.	{ A May 20, 1890 M June 18, 1890
BENJAMIN, PARK	Electrical Expert and Engineer, 203 Broadway, N. Y. City.	{ A Dec. 16, 1891 M Feb. 16, 1892
BERNARD, EDGAR G.	Electrical Engineer, President, E. G. Bernard & Co., 43 4th St., Troy, N. Y.	{ A Jan. 5, 1886 M July 12, 1887
BERTHOLD, VICTOR M.	Patent Department, American Bell Telephone Co., 125 Milk St., Boston; residence, 16 Upton St., Cambridgeport, Mass.	{ A May 17, 1892 M May 21, 1895
BILLBERG, C. O. C.	Electrical Engineer, Carbondale, Pa.	{ A Mar. 21, 1894 M Feb. 27, 1895
BINNEY, HAROLD	Patent Solicitor and Expert, Potter Building, 38 Park Row, New York City.	{ A Sept. 16, 1890 M Dec. 16, 1890
BIRDSALL, E. T. M. E.	Consulting Electrical Engineer, 18 Broadway; Residence, 56 West 38th St., New York City.	{ A June 8, 1887 M Nov. 1, 1887

MEMBERS

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NAME.	Address.	Date of Membership.
BISHOP, JAMES DRAPER	Electrical Engineer of the Safety Insulated Wire and Cable Co., 234 W. 29th St., New York City.	{ A Dec. 16, 1891 M Oct. 25, 1892
BLADES, HARRY H.	Electrical Engineer, 419 Cass Ave., Detroit, Mich.	{ A April 19, 1892 M May 21, 1893
BLAKE, FRANCIS	Auburndale, Mass.	{ A Sept. 3, 1889 M Oct. 1, 1889
BLODGETT, GEO. W.	Electrical Engineer, B. & A. R. R. and Consulting Electrician, Boston, Mass.	{ A July 12, 1887 M Sept. 6, 1887
BLOOD, JOHN BALCH	Union Elektricitäts Ges., 32 Holmannstrasse, Berlin, Germany.	{ A June 20, 1894 M Dec. 18, 1895
BOILEAU, WILLARD E.	Superintendent and Electrician, Brush Electric Light & Power Co., Columbus, Ga.	{ A Sept. 19, 1894 M Mar. 25, 1896
BOSCH, ADAM	Sup't Fire Alarm Telegraph, Newark, N. J.	{ A April 15, 1884 M Jan. 6, 1885
BOSSON, FREDERICK N.	Consulting Mining and Electrical Engineer; Electrician, Calumet and Hecla Mining Co., Calumet, Mich.	{ A May 17, 1892 M Feb. 21, 1893
BOTTOMLEY, HARRY	Electrical Engineer, Supt., Marlboro Electric Co., Marlboro, Mass.	{ A April 2, 1889 M Jan. 22, 1896
BOURNE, FRANK	Electrical Engineer, 39 Cortlandt St., New York City.	{ A April 21, 1891 M Nov. 15, 1892
BOWMAN, FRED. A.	Supt., New Glasgow Electric Co., New Glasgow, Nova Scotia.	{ A May 19, 1891 M Nov. 21, 1894
BOYER, ELMER E.	Foreman, Testing Department, Lynn Works, General Electric Co., Lynn, Mass.	{ A Sept. 25, 1895 M Mar. 25, 1896
BOYNTON, EDWARD C.	Electrical Dep't, N. Y., N. H. & H. R. R., New Haven, Ct.	{ A Aug. 6, 1889 M Nov. 24, 1891
BRADLEY, CHAS. S.	(Manager.) Electrical Engineer, 44 Broad Street, New York City.	{ A May 24, 1887 M Dec. 6, 1887
BRENNER, WILLIAM H.	Electric Storage Battery Co., 66 Broadway, New York City.	{ A Sept. 20, 1893 M Mar. 21, 1894
BRINCKERHOFF, HENRY MORTON	Electrical Engineer, Metropolitan West Side Elevated R. R., 258 Franklin St., Chicago, Ill.	{ A Sept. 23, 1896 M Dec. 16, 1896
BROADNAX, FRANCIS	Electrical Engineer, Blake and Williams, 362 West Broadway, New York City; residence, 28 Walnut St., Montclair, N. J.	{ A Jan. 17, 1894 M Jan. 16, 1895
BROOKS, MORGAN	President and Manager, The Electrical Engineering Co., 249 Second Ave., South; residence, 2950 Park Ave., Minneapolis, Minn.	{ A May 20, 1890 M June 17, 1890
BROWN, ALFRED S.	Electrical Engineer, Western Union Telegraph Co., 195 Broadway, P. O. Box 856, New York City.	{ A Mar. 18, 1890 M Feb. 21, 1893

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Name.	Address.	Date of Membership.
BROWN, EDWARD D.	General Inspector, American Telephone and Telegraph Co., 18 Cortlandt St., New York City; residence, 75 Hicks St., Brooklyn, N. Y.	{ A Sept. 19, 1894 M Nov. 20, 1895
BROWN, J. STANFORD, <i>E. E.</i> , [Life Member.]	Consulting Electrical Engineer; Carpenter Steel Co., 1 Broadway and 100 Broadway, New York City; residence, Park Hill, Yonkers, N. Y.	{ A Sept. 6, 1887 M Nov. 1, 1887
BRUSH, CHAS. F.	Electrical Engineer, 453 The Arcade, Cleveland, O.	{ A April 15, 1884 M Oct. 21, 1884
BURLEIGH, CHAS. B.	Supt. Isolated Dept. General Electric Co., 620 Atlantic Ave., Boston, Mass.	{ A April 21, 1891 M Feb. 16, 1892
BYLLESBY, HENRY M.	Northwest General Electric Co., 403 Sibley St., St. Paul, Minn.	{ A Sept. 7, 1888 M Oct. 2, 1888
CAHOON, JAS. B.	Electrical Engineer; General Manager, The Elmira Municipal Improvement Co., 313 Columbia St., Elmira, N. Y.	{ A June 17, 1890 M May 19, 1891
CALLENDER, ROMAINE	Electrician, Ryton-on-Tyne, Eng.	{ A Sept. 27, 1892 M May 21, 1895
CARHART, HENRY S.	Prof. of Physics, University of Michigan, Ann Arbor, Mich.	{ A Sept. 25, 1895 M April 22, 1896
CARROLL, LEIGH	Algiers Ice and Electric Co., 423 Baronne St., New Orleans, La.	{ A Oct. 1, 1889 M Nov. 12, 1890
CARUS-WILSON, CHARLES A.	Professor of Electrical Engineering, McGill University, Montreal, P. Q.	{ A April 18, 1894 M April 17, 1895
CHAMBERLAIN, J. C.	Electrical Engineer, Morris Heights; residence, 1 West 81st St., New York City.	{ A Dec. 6, 1887 M Jan. 3, 1888
CHANDLER, PROFESSOR CHARLES F.	Columbia College, 41 East 49th St., New York City.	{ A Jan. 20, 1891 M June 7, 1892
CHASE, HARVEY STUART	Mechanical and Electrical Engineer, 83 Union St., Boston, Mass.	{ A Sept. 19, 1894 M Jan. 22, 1896
CHENEY, W. C.	Superintendent, Consolidated Railway Co., Victoria, B. C.	{ A Sept. 22, 1891 M Nov. 21, 1894
CHILDS, ARTHUR EDWARDS,	<i>B. Sc. M. E. E. E.</i> Manager New England Office, The Electric Storage Battery Co., 92 State Street, Boston, Mass.	{ A June 20, 1894 M April 17, 1895
CHURCHILL, ARTHUR	British Thomson-Houston Co., 83 Canon Street, London, Eng.	{ A April 15, 1890 M Jan. 17, 1893
CLARK, ERNEST P.	Electrical Engineer, Clark Electric Co., 478 Pearl St., New York City.	{ A Jan. 8, 1887 M Nov. 1, 1887
CLARKE, CHAS. L.	Electrical Engineer and Patent Expert, 55 Liberty St., New York City.	{ A April 15, 1884 M Jan. 6, 1885
COLBY, EDWARD A.	Consulting Engineer, Lock Box 313, Newark, N. J.	{ A April 2, 1889 M May 7, 1889

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Name.	Address.	Date of Membership.
COLVIN, FRANK R.	203 Broadway, New York City.	{ A April 18, 1894 M May 21, 1895
COMSTOCK, LOUIS K.	Electrical Engineer, Monadnock Building, Chicago, Ill.	{ A Dec. 20, 1893 M Nov. 20, 1895
CONDUCT, G. HERBERT	Electrical Engineer, 5328 Green St., Germantown, Pa.	{ A July 12, 1887 M Sept. 6, 1887
COSTER, MAURICE	Engineer, Westinghouse Elec. and Mfg. Co., N. Y. Life Bldg., Chicago, Ill.	{ A Sept. 25, 1895 M Mar. 25, 1896
CORNELL, CHAS. L.	Electrical Engineer, Hamilton, O.	{ A Feb. 7, 1890 M June 27, 1895
COTHREN, WM. H.	51 W. 37th St., New York City.	{ A Aug. 6, 1889 M Oct. 1, 1889
COWLES, ALFRED H.	Technical Adviser to the Cowles Smelting and Aluminum Co., 656 Prospect St., Cleveland, O.	{ A Mar. 5, 1886 M May 7, 1889
CRAIG, J. HALLY	New England Electrical Supply Co., 49 Federal St., Boston, Mass.	{ A May 16, 1893 M Feb. 27, 1895
CRANDALL, JOSEPH EDWIN	Electrician, C. & P. Telephone Co., 619 Fourteenth St., N. W. Washington, D. C.	{ A April 18, 1892 M April 18, 1894
CROCKER, FRANCIS BACON [Life Member.]	Professor of Electrical Engineering, Columbia University, New York.	{ A May 24, 1887 M April 2, 1889
CROSBY, JAMES WELLINGTON	Electrical Engineer, Room 102, 15 Federal St., Boston; residence, Wellington, Mass.	{ A Feb. 21, 1894 M Feb. 27, 1895
CROSS, CHARLES R.	Thayer Professor of Physics, and Director of the Rogers Laboratory, Mass. Institute of Technology, Boston, Mass.	{ A April 15, 1884 M Oct. 21, 1884
CUSHING, HARRY COOKE, JR.	Electrical Consulting and Constructing Engineer, 39 Cortlandt St., New York City.	{ A Sept. 19, 1894 M Nov. 18, 1896
CUTTER, GEORGE	Dealer in Electrical Supplies, 851 The Rookery, Chicago, Ills.	{ A June 17, 1890 M May 19, 1891
CUTTRISS, CHAS.	Electrician, The Commercial Cable Co., 1 Broad St., New York.	{ A Nov. 1, 1887 M Dec. 6, 1887
DAFT, LEO	Consulting Electrical Engineer and Contractor, 633 W. 21st Street, Los Angeles, Cal.	{ A Dec. 9, 1884 M Jan. 6, 1885
DANIELL, FRANCIS G.	Electrical Engineer, Fairhaven and Westville R. R. Co., P. O. Box 394, New Haven, Conn.	{ A Nov. 12, 1889 M June 20, 1894
DARLINGTON, FREDERIC W.	Consulting Electrical and Mechanical Engineer, 907 Drexel Building, Philadelphia, Pa.	{ A Sept. 19, 1894 M Nov. 25, 1895
DAVIES, JOHN E.	Professor of Physics, University of Wisconsin, 523 North Carroll St., Madison, Wis.	{ A Jan. 7, 1890 M Mar. 18, 1890

Name.	Address.	Date of Membership.
DAVIS, CHARLES H., C. E.	Consulting and Constructing Engineer, 99 Cedar St., 576 Lexington Ave., New York City, and 308 Walnut St., Philadelphia, Pa.	{ A Mar. 18, 1890 M June 17, 1890
DAVIS, MINOR M.	Ass't Electrician, Postal Telegraph-Cable Co., 253 Broadway, New York City.	{ A April 6, 1886 M May 16, 1893
DELAFIELD, A. FLOYD, P.A. D.	Electrical Engineer, Noroton, Conn.	{ A May 7, 1889 M Oct. 1, 1889
DELANY, PATRICK BERNARD	Inventor, South Orange N. J.	{ A April 19, 1884 M Nov. 24, 1891
DICKENSON, SAMUEL S.	Sup't., Commercial Cable Co., Hazel-Hill, Guysborough Co., N. S.	{ A Mar. 6, 1888 M Oct. 1, 1889
DIEHL, PHILIP	Inventor, Singer Sewing Machine Co., 508 Morris Ave., Elizabeth, N. J.	{ A April 15, 1884 M Dec. 9, 1884
D'INFREVILLE, GEORGES	Electrical Engineer and Expert, 10 Desbrosses St., New York City.	{ A Nov. 1, 1887 M Dec. 6, 1887
DION, ALFRED A.	General Supt., The Ottawa Electric Co., 72 Sparks St., Ottawa, Ont.	{ A Jan. 7, 1890 M Nov. 15, 1893
DOANE, S. EVERETT	101 State St., Schenectady, N. Y.	{ A Aug. 6, 1889 M June 27, 1895
DODGE, PROF. OMENZO G.	U. S. Navy, Navy Dep't, Washington, D. C.	{ A Sept. 20, 1893 M April 17, 1895
DOIJER, H.	Consulting Electrical Engineer, 8 Choorstraat, Delft, Holland.	{ A Jan. 7, 1890 M Mar. 18, 1890
DOMMERQUE, FRANZ J.	Chief Draughtsman, Chicago Telephone Co.; residence, 496 N. Robey St., Chicago, Ill.	{ A Oct. 17, 1894 M Mar. 25, 1896
DONNER, WILLIAM H.	Electrical Eng'g Dept. International Correspondence School, Scranton, Pa.	{ A Nov. 18, 1890 M Dec. 16, 1890
DOW, ALEX	Manager, Edison Illuminating Co., Detroit, Mich.	{ A Sept. 20, 1893 M Dec. 18, 1895
DUDLEY, CHARLES B.	Chemist and Scientific Expert, Penn. R. R. Co., 1219 Twelfth Ave., Altoona, Pa.	{ A Oct. 1, 1889 M Nov. 12, 1889
DUNBAR, F. W.	417 West 23d St., New York City.	{ A Dec. 21, 1892 M May 16, 1893
DUNCAN, DR. LOUIS	(President) Johns Hopkins University, residence, 139 E. North Ave., Baltimore, Md.	{ A July 12, 1887 M Sept. 6, 1887
DUNN, GANO SILICK	Chief Engineer, Crocker-Wheeler Electric Co., Ampere, E. Orange, N. J.; residence, 223 Central Park, West, New York City.	{ A April 21, 1891 M June 20, 1894
DUNSTON, ROBT. EDWARD	The Cortland and Homer Traction Co., Cortland, N. Y.	{ A Oct. 27, 1891 M Feb. 16, 1892
DYER, R. N.	Patent Attorney, 36 Wall St., New York City.	{ A July 12, 1887 M Sept. 6, 1887
EDISON, THOMAS A.	Mechanic and Inventor, Orange, - N. J.	{ A April 15, 1884 M Oct. 21, 1884

MEMBERS

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Name.	Address.	Date of Membership.
EDGAR, C. L.	General Manager and Chief Engineer, Edison Elec. Ill'm'g Co., 3 Head Place, Boston, Mass.	{ A Jan. 22, 1896 M May 19, 1896
EGGER, ERNST	Electrical Engineer care of B. Egger & Co., X., Simmeringstr., 187, Vienna, Austria.	{ A Feb. 21, 1893 M Mar. 21, 1894
EMERY, CHARLES EDWARD	Consulting Engineer, 915 Bennett Building, cor. Fulton and Nassau Sts., New York City.	{ A June 26, 1891 M April 19, 1892
EMMET, W. L. R.	Electrical Engineer, General Electric Co., Schenectady, N. Y.	{ A June 6, 1893 M Jan. 17, 1894
EVEREST, AUGUSTINE R.	Electrical Engineer, General Electric Co., Lynn, Mass.	{ A May 19, 1891 M Dec. 20, 1893
FARNHAM, ISAIAH H.	Electrical Engineer, N. E. Telephone & Telegraph Co., 125 Milk St., Boston, Mass.	{ A June 8, 1887 M July 12, 1887
FESSENDEN, REGINALD A.	Professor of Electrical Engineering, Western University of Pennsylvania, Allegheny, Pa.	{ A Oct. 21, 1890 M Dec. 16, 1890
FIELD, C. J., M. E.	Consulting and Constructing Engineer, 39 Cortlandt Street, New York City.	{ A June 8, 1887 M Nov. 1, 1887
FIELD, HENRY GEORGE	Consulting Electrical Engineer, Field & Hinchman, 1203 Majestic Building, Detroit, Mich.	{ A April 22, 1896 M Dec. 16, 1896
FIELD, STEPHEN D.	Electrical Engineer, Stockbridge, Mass.	{ A April 15, 1884 M Oct. 21, 1884
FISH, WALTER CLARK	Manager Lynn Works, General Electric Co., Lynn, Mass.	{ A June 26, 1891 M Feb. 26, 1896
FITZMAURICE, JAMES S.	Chief Engineer, The Electric Light Branch, 210 George St., Sydney, N. S. W.	{ A Sept. 20, 1893 M Mar. 21, 1894
FLACK, J. DAY	Burhorn & Granger, Contracting Mechanical Eng'rs, 136 Liberty St., New York City; residence, 80 Carlton St., East Orange, N. J.	{ A Dec. 6, 1887 M May 21, 1895
FORTENBAUGH, S. B.	Asst. Prof. of Electrical Engineering, University of Wisconsin, Madison, Wis.	{ A April 17, 1895 M Dec. 16, 1896
FOSTER, HORATIO A.	Electrical Engineer, Room 656, Ellicott Square, Buffalo.	{ A June 8, 1887 M Sept. 6, 1887
FOSTER, SAMUEL L.	Electrical Engineer, Market Street Railway Co. 19 Hobart Bldg.; residence, 3687 24th St., San Francisco, Cal.	{ A Feb. 26, 1896 M Nov. 18, 1896
FREEMAN, DR. FRANK L.	Attorney-at-Law, Solicitor of Patents, Electrical Expert, 931 F St., Washington, D. C.	{ A May 7, 1889 M Sept. 3, 1889
FREEDMAN, WILLIAM H.	Tutor in Electrical Engineering, School of Mines, Columbia University; residence, 157 W. 119th St., New York City.	{ A Mar. 18, 1890 M Dec. 18, 1895

Name.	Address.	Date of Membership.
GALE, HORACE B.	Electrical and Mechanical Engineer, American Electric Heating Corporation, 610 Sears Building, Boston; residence, Natick, Mass.	{ A Nov. 15, 1892 M May 16, 1893
GARDANIER, GEORGE W.	Assis't Electrical Engineer, Western Union Telegraph Co., 195 Broadway, New York City.	{ A April 18, 1893 M Jan. 22, 1896
GARRATT, ALLAN V.	Chief Engineer, Lombard Water-wheel Governor Co., 61 Hampshire St., Boston, Mass.	{ A April 2, 1889 M May 7, 1889
GERRY, M. H., JR.	Supt. of Motive Power, The Metropolitan West Side Elevated Railroad Co., 146 Throop St., Chicago, Ill.	{ A April 18, 1893 M Oct. 21, 1896
GEYER, DR. WM. E.	Stevens Institute of Technology, Hoboken, N. J.	{ A June 5, 1888 M Sept. 7, 1888
GHARKY, WILLIAM DAVID	Sup't Underground Cable Construction and Maintenance, Philadelphia Traction Co.; 820 Dauphin St., Philadelphia, Pa.	{ A May 21, 1895 M Feb. 26, 1896
GIFFORD, CLARENCE E.	Electrical Engineer, Supt. Jamestown Electric Light and Power Co., Jamestown, N. Y.	{ A May 16, 1893 M Feb. 21, 1894
GRAY, DR. ELISHA	Electrician and Inventor, Highland Park, Ill.	{ A Feb. 16, 1892 M May 17, 1892
GREENE, S. DANA	Assistant General Manager, General Electric Co., Schenectady, N. Y.	{ A Sept. 20, 1893 M April 18, 1894
GRISCOM, WM. W., M.A.	Electrical Engineer, 224 Chestnut St., Philadelphia; residence, Haverford, Pa.	{ A June 5, 1888 M Mar. 18, 1890
GUTMANN, LUDWIG	Electrical Engineer, 815 North Jefferson Ave., Peoria, Ill.	{ A Sept. 14, 1888 M Mar. 21, 1893
HADAWAY, W. S., Jr.	Electric Heating Engineer, 107 Liberty St., New York City.	{ A Nov. 21, 1894 M Oct. 21, 1896
HALL, CLAYTON C.	Civil Engineer, 810 Park Ave., Baltimore, Md.	{ A April 15, 1884 M Oct. 21, 1884
HALL, JOHN L.	Manager, Western Union Telegraph Co., 300 Market St., Wilmington, Del.	{ A Sept. 22, 1891 M Dec. 20, 1893
HAMBLET, JAMES	Manager Time Service, W. U. Tel. Co., 195 Broadway, P. O. Box 856, New York City; residence, 20 Sidney Place, Brooklyn, N. Y.	{ A Nov. 1, 1887 M Dec. 6, 1887
HAMILTON, GEO. A.	(Treasurer.) Electrician, Western Electric Co., 22 Thames cor. Greenwich St., New York; residence, 532 Morris Ave., Elizabeth, N. J.	{ A April 15, 1884 M Oct. 21, 1884
HAMMER, WILLIAM J.	Consulting and Supervising Electrical Engineer, 1305 Havemeyer Building, 26 Cortlandt St., New York City; residence, Elmora, N. J.	{ A June 8, 1887 M July 12, 1887

MEMBERS

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Name.	Address.	Date of Membership.
HARRINGTON, WALTER E.	Electric Railway Engineer, 307 Market St., Camden, N. J.	{ A Mar. 17, 1891 M May 19, 1896
HARRISON, RUSSELL B.	Pres. and Electrical Engineer, Terre Haute Electric Railway Co., Terre Haute, Ind.	{ A Sept. 25, 1893 M April 22, 1896
HARTWELL, ARTHUR	Electrical Engineer, Westinghouse Electric and Mfg Co., residence, 6804 McPherson St., Pittsburg, Pa.	{ A May 15, 1894 M Nov. 20, 1895
HASKINS, CARYL D.	Electrical Engineer, General Electric Co., 620 Atlantic Ave., Boston, Mass.	{ A Mar. 18, 1890 M June 20, 1894
HASKINS, CHARLES H.	Electrician, 70 Linwood Avenue, Buffalo, N. Y.	{ A April 15, 1884 M Oct. 21, 1884
HASKINS, CLARK CARYL	City Electric Light Inspector, 582 West Congress St., Chicago, Ill.	{ A Sept. 20, 1893 M Mar. 21, 1894
HASSON, W. F. C.	(Vice-President.) Firm of Hasson & Hunt, Consulting and Supervising Mechanical and Electrical Engineers, 310 Pine St., Telephone 5650, San Francisco, Cal.	{ A Mar. 18, 1890 M May 15, 1894
HAYES, HAMMOND V.	Electrician, American Bell Telephone Co., 42 Farnsworth St., So. Boston Mass.	{ A Nov. 12, 1889 M Mar. 18, 1890
HAYES, HARRY E.	Asst. Electrician, American Telegraph and Telephone Co., 153 Cedar St., New York City.	{ A April 18, 1893 M Dec. 20, 1893
HAYNES, F. T. J.	Divisional Telegraph Engineer, Great Western Railway, Residence, Belmont Villa, Cheddor Road, Taunton, Eng.	{ A Dec. 6, 1886 M Jan. 3, 1887
HEATH, HARRY E.	Assistant Electrical Engineer, Eddy Electric Mfg. Co., Box 189, Windsor, Conn.	{ A Mar. 21, 1893 M Mar. 25, 1896
HEINRICH, RICHARD O.	Electrical Engineer, The European Weston Electrical Instrument Co., Köpnick Strasse 154, Berlin, S. O. Germany.	{ A Oct. 1, 1889 M Oct. 25, 1892
HENSHAW, FREDERICK V.	Downes & Henshaw, Consulting Electrical and Mechanical Engineers, 86 Weybosset St., Providence, R. I.	{ A Feb. 5, 1889 M Nov. 20, 1895
HERDMAN, FRANK E.	Mechanical and Electrical Engineer, Crane Elevator Co., Winnetka, Ill.	{ A Dec. 18, 1895 M Oct. 21, 1896
HERING, CARL [Life Member.]	(Manager.) Consulting Electrical Engineer, 927 Chestnut St.; residence 124 E. Mt. Pleasant Ave., Philadelphia, Pa.	{ A Jan. 3, 1888 M June 5, 1888
HERING, HERMANN S.	Associate in Electrical Engineering, Johns Hopkins University, residence, 1809 Park Ave., Baltimore, Md.	{ A April 21, 1891 M April 18, 1893
HERRICK, CHARLES H.	Consulting and Constructing Electrical Engineer, 133 Oliver St., Boston; residence, 22 Herrick St., Winchester, Mass.	{ A April 21, 1891 M Jan. 17, 1893

Name.	Address.	Date of Membership
HERZOG, F. BENEDICT,	<i>Ph. D.</i> President, Herzog Teleseme Co., 55 Broadway, New York City	{ A May 24, 1887 M July 12 1887
HEWITT, CHARLES	Assistant Engineer, Philadelphia Traction Co., 920 Spruce St., Philadelphia, Pa.	{ A Sept. 16, 1890 M May 17, 1892
HIBBARD, ANGUS S.	(<i>Vice-President.</i>) General Manager, Chicago Telephone Co., 203 Washington St., Chicago, Ill.	{ A Nov. 24, 1891 M Feb. 16, 1892
HIGGINS, EDWARD E.	Editor, <i>Street Railway Journal</i> , 26 Cortlandt St., New York City.	{ A June 8, 1887 M July 12, 1887
HIX, E. RANDOLPH	Hix, Hamilton & Co., Electrical Engineers and Contractors, 41 Wall St., New York City.	{ A Feb. 21, 1894 M Feb. 27, 1895
HOLMES, FRANKLIN S.	Electrical Engineer, 108 Fulton St., New York City; residence, 445a Macon St., Brooklyn, N. Y.	{ A April 21, 1891 M June 20, 1894
HOUSTON, EDWIN J., [Life Member.]	<i>Ph. D.</i> (<i>Past President.</i>) Prof of Physics, Franklin Inst., Firm of Houston & Kennelly, 1105 Betz Bldg.; residence, 1809 Spring Garden St., Philadelphia, Pa.	{ A April 15, 1884 M Oct. 21, 1884
HOWELL, JOHN W.	Electrician, 20 Chestnut St., Newark, N. J.	{ A July 12, 1887 M June 5, 1888
HOWELL, WILSON S.	General Electric Lamp Works, Harrison, N. J.; residence, 19 Webster Place, Orange, N. J.	{ A Sept. 3, 1889 M Mar. 18, 1890
HUNTER, RUDOLPH M.	Expert and Counsellor in Patent Causes, 926 Walnut St., Philadelphia, Pa.	{ A July 13, 1886 M May 17, 1887
HUNTING, FRED S.	Chief Engineer, Fort Wayne Electric Co., 330 West Washington St., Fort Wayne, Ind.	{ A Nov. 15, 1892 M May 16, 1893
HUTCHINSON, DR. CARY T.	(<i>Manager.</i>) Electrical Engineer, 253 Broadway, New York City.	{ A Feb. 7, 1890 M Dec. 16, 1890
HYDE, JEROME W.	Ass't Treasurer, The Springfield Steam Power Co., Wason Bldg. Springfield, Mass.	{ A June 8, 1887 M Nov. 1, 1887
INRIG, ALEC GAVAN	Globe Electrical Co., 44 White Post Lane, Victoria Park, London, Eng.	{ A Jan. 19, 1892 M May 17, 1892
IVES, EDWARD B.	Chief Engineer, Raritan Construction Co., 153 Bullitt Bldg., Philadelphia, Pa.	{ A April 2, 1889 M May 15, 1894
JACKSON, DUGALD C.	Professor of Electrical Engineering, University of Wisconsin, Madison, Wis.	{ A May 3, 1887 M June 17, 1890
JACKSON, FRANCIS E.	Aylsworth & Jackson, Incandescent Filament Manufacturers, 128 Essex Ave., Orange; residence, 61 South Grove St., East Orange, N. J.	{ A Jan. 3, 1888 M June 17, 1890
JACKSON, HENRY	Telegraph Supt. and Engineer, The Lancashire & Yorkshire Railway Co., Horwich, Bolton-le-Moors, Lancashire, England.	{ A Mar. 21, 1894 M Dec. 19, 1894

Name.	Address.	Date of Membership.
JACKSON, JOHN PRICE	Professor of Electrical Engineering, Penn. State College, State Col- lege, Pa.	{ A Sept. 27, 1892 M Jan. 17, 1894
JANNUS, FRANKLAND	Attorney-at-Law, Solicitor of Pa- tents, 928-30 F. St., N. W. Washington, D. C.	{ A Nov. 12, 1889 M Mar. 18, 1890
JEHL, FRANCIS	Lichtenauergasse 8, Brünn, Moravia, Austria.	{ A June 27, 1895 M Jan. 22, 1896
JENKS, W. J.	Secretary, Board of Patent Control, 120 Broadway, New York City.	{ A June 8, 1887 M Nov. 1, 1887
JOHNSTON, A. LANGSTAFF	Chief Engineer, Richmond Traction Co., 1112 E. Main St., Richmond, Va.	{ A April 21, 1891 M April 18, 1894
JONES, FRANCIS WILEY [Life Member.]	Assistant Gen'l-Manager and Elec- trician, Postal Telegraph-Cable Co., 253 Broadway, New York City.	{ A April 15, 1884 M Oct. 21, 1884
KEITH, DR. NATHANIEL S.	Sandycroft Foundry, E. W. Co., Hawarden, near Chester, Eng.	{ A June 6, 1893 M Jan. 17, 1894
KIMBALL, DR. ALONZO S.	Professor of Physics, and Electrical Engineering, Worcester Polytech- nic Institute, Worcester, Mass.	{ A Sept. 3, 1889 M Mar. 20, 1895
KINSMAN, FRANK E.	Electrical Engineer, 66 Broadway, New York City; residence, 836 Sherman Ave., Plainfield, N. J.	{ A Sept. 27, 1892 M May 16, 1893
KNOWLES, EDWARD R. E. E.	C. E. 150 Nassau Street, New York City; residence, 36 Cam- bridge Place, Brooklyn, N. Y.	{ A June 8, 1887 M July 12, 1887
KNUDSON, A. A.	Electrical Engineer, 688A Greene Ave., Brooklyn, N. Y.	{ A Dec. 6, 1887 M Jan. 3, 1888
LANGE, PHILIP A.	Superintendent Westinghouse Elec- tric and Manufacturing Co., East Pittsburg, Pa.	{ A Mar. 6, 1888 M June 5, 1888
LANGTON, JOHN	Electrical Engineer, Canada Life Building, Toronto, Ont., and 72 Trinity Place, New York, N. Y.	{ A Mar. 6, 1888 M June 5, 1888
LA ROCHE, FRED. A.	President and General Manager, Ideal Electric Corporation, 652- 660 Hudson Street; residence, 28 W. 25th St., New York.	{ A Sept. 19, 1894 M Nov. 20, 1895
LATTIG, J. W.	Electrical Engineer, Supt. of Tele- graph and Electrical Apparatus, Lehigh Valley R. R. Co., So. Bethlehem, Pa.; residence, 335 Broad St., West Bethlehem, Pa.	{ A June 8, 1887 M July 12, 1887
LAWSON, A. J.	Electrical Engineer, The County of London and Brush Provincial Electric Lighting Co., Ltd., 49 Queen Victoria St., London, Eng.	{ A Mar. 18, 1890 M June 17, 1890
LEMP, HERMANN, JR.	Electrician, 186 Allen Avenue, Lynn, Mass.	{ A April 2, 1889 M Feb. 21, 1893

Name.	Address.	Date of Membership.
LEONARD, H. WARD	Electrical Engineer, Ward Leonard Electric Co., 13th and Washington Sts., Hoboken, N. J.; residence, East Orange, N. J.	{ A July 12, 1887 M Sept. 6, 1887
LEONARD, M. B.	Electrical Engineer, and Supt. of Telegraph, Chesapeake & Ohio R'y. Co., Richmond, Va.	{ A Nov. 6, 1886 M May 1, 1888
LIEB, JOHN W., JR.	(Manager.) General Mgr., Edison Electric Ill. Co.; Residence, 166 West 97th St., New York City.	{ A Sept. 6, 1887 M Nov. 1, 1887
LIGHTHIPE, JAMES A.	District Engineer, General Electric Co., 15 First St., San Francisco, Cal.	{ A Feb. 21, 1893 M April 17, 1895
LLOYD, HERBERT	General Manager, Electrical Engineer and Chemist, The Electric Storage Battery Co., Drexel Bldg., Philadelphia, Pa.	{ A June 20, 1894 M May 21, 1895
LLOYD, JOHN E.	Assistant Chief Engineer, Philadelphia Traction Co.; residence, 2008 N. 18th, St., Philadelphia, Pa.	{ A Jan. 22, 1896 M Mar. 25, 1896
LLOYD, ROBERT MCA.	Electrician, 66 Broadway; residence, 1 West 39th St., New York City.	{ A Oct. 21, 1890 M Nov. 15, 1893
LOCKWOOD, THOMAS D., F. I. Inst. [Life Member.]	Electrical Engineer, and Advisory Electrician, P.O. Drawer 2, Boston, Mass.	{ A April 15, 1884 M Oct. 21, 1884
LOOMIS, OSBORN P.	Electrical and Consulting Engineer, Bound Brook, N. J.	{ A Sept. 16, 1890 M Dec. 16, 1896
LORRAIN, JAMES GRIEVE	Norfolk House, Norfolk St., London, W. C., England.	{ A May 16, 1891 M May 15, 1894
LOVEJOY, J. R.	General Manager, Supply Dept., General Electric Co., Schenectady, N. Y.	{ A April 21, 1891 M Feb. 21, 1894
MACFARLANE, ALEXANDER, D. Sc., LL.D.	Professor in Electrical Engineering, Lehigh University, South Bethlehem, Pa.	{ A Jan. 19, 1892 M May 17, 1892
MAILLOUX, C. O.	Consulting Electrical Engineer, 150 Nassau St., Telephone 3985 Cortlandt, New York City.	{ A April 15, 1884 M Oct. 21, 1884
MANSFIELD, ARTHUR NEWHALL	Assistant Electrician, American Telephone and Telegraph Co., 153 Cedar St., New York City.	{ A Dec. 20, 1893 M June 20, 1894
MARKS, LOUIS B., M. M. E.	Chief Electrician, The Electric Arc Light Co., 689 Broadway; residence, 51 East 67th St., New York City.	{ A May 20, 1890 M Jan. 16, 1895
MARKS, WILLIAM DENNIS, Ph.B. C. E.	President, The American Electric Meter Co., 1014 Betz Building, Philadelphia, Pa.	{ A Feb. 7, 1888 M May 1, 1888
MARSHALL, J. T.	Metuchen, N. J.	{ A Oct. 1, 1889 M Nov. 12, 1889
MARTIN, JULIUS	Electrician, 16 Oak St., Newark, N. J., Master Electrician, Equipment Dept., New York Navy Yard.	{ A Oct. 21, 1890 M Nov. 20, 1895

MEMBERS

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Name.	Address.	Date of Membership.
MARVIN, HARRY N.	Electrical Engineer and Manager, Marvin Electric Drill Co., Canas- tota, N. Y.	{ A April 19, 1892 M Jan. 17, 1893
MAVER, WILLIAM, JR.	Electrical Expert and Consulting Electrical Eng'r, 27 Thames St., New York City; residence, 227 Arlington Ave., Jersey City, N. J.	{ A July 12, 1887 M April 21, 1891
MAYER, GEORGE M.	Enterprise Block, 5th Floor, 79 Fifth Ave., Chicago, Ill.	{ A Dec. 16, 1890 M June 29, 1894
MAYNARD, GEO. C.	Electrical Engineer, 800 H. St., N. W., Washington, D. C.	{ A April 15, 1884 M Dec. 9, 1888
McCAY, H. KENT	Electrical Engineer and Contractor, 106 E. German St., Baltimore, Md.	{ A Sept. 16, 1890 M May 19, 1891
McCLUER, C. E.	Superintendent, First District, So. Bell Telephone and Telegraph Co., P. O. Box 32, Richmond, Va.	{ A Mar. 21, 1893 M Jan. 17, 1894
McCROSKY, JAMES W.	Chief Engineer, La Capital Tramway Co. and Compaina de Luz y Fuerza Motriz de Cordoba, 715 Avenida de Mayo, Buenos Aires, Argentina.	{ A Dec. 20, 1893 M Dec. 16, 1896
McCROSSAN, J. A.	Manager and Electrician, Citizens' Telephone and Electric Co., Rat Portage, Ont.	{ A Oct. 18, 1893 M Dec. 18, 1895
MCMEEN, SAMUEL G.	Engineer, Central Union Telephone Co., 1306 Ashland Block, Chicago, Ill.	{ A Dec. 18, 1895 M Dec. 16, 1896
MERSHON, RALPH D.	Electrical Engineer, Westinghouse Elec. and Mfg. Co. 120 Broadway, New York, N. Y.	{ A Mar. 20, 1895 M Jan. 22, 1896
METCALFE, GEORGE R.	136 Liberty Street; residence, 404 West 22d St., New York City.	{ A April 19, 1892 M Nov. 15, 1892
MILLIS, JOHN	Captain of Engineers U. S. A., The Lighthouse Board, Washington, D. C.	{ A July 7, 1884 M Mar. 3, 1885
MILLS, FRANK P.	Superintendent, Merced Gold Min- ing Co., Coulterville, Cal.	{ A Jan. 6, 1885 M Mar. 3, 1885
MITCHELL, JAMES	Constructing Engineer and Agent, General Electric Co., Caixa do Correio No. 954, Rio de Janeiro, Brazil.	{ A Sept. 25, 1895 M Mar. 25, 1896
MIX, EDGAR W.	Electrician, 12 Boulevard des In- valides, Paris, France.	{ A Sept. 3, 1889 M Mar. 20, 1895
MOLERA, E. J.	Civil Engineer, 606 Clay St., San Francisco, Cal.	{ A Jan. 16, 1892 M June 7, 1892
MOORE, D. MCFARLAN	Inventor, Moore Electrical Co., 52 Lawrence St., Newark, N. J.	{ A Dec. 20, 1893 M June 20, 1894
MORROW, JOHN THOMAS	Supt. Electrolytic Plant, Boston and Montana Consolidated Copper and Silver Mining Co., Great Falls, Mont.	{ A Dec. 21, 1892 M April 18, 1894
NEILER, SAMUEL G.	Ass't Electrical Engineer, Pierce & Richardson, 1409 Manhattan Building, Chicago, Ill.	{ A April 18, 1894 M Dec. 18, 1895

MEMBERS

Name.	Address.	Date of Membership.
NICHOLS, DR. EDWARD L.	Professor of Physics, Cornell University, Ithaca, N. Y.	{ A Oct. 4, 1887 M Dec. 6, 1887
NICHOLS, GEO. P.	Partner, Geo. P. Nichols & Bro., Elec. Engineers and Contractors, 1036 Monadnock Bldg., Chicago, Ill.	{ A Jan. 22, 1896 M Nov. 18, 1896
NOLL, AUGUSTUS	Contracting Electrical Engineer, 8 East 17th St., Telephone, 62, 18th; New York City.	{ A Sept. 27, 1892 M April 18, 1893
NUNN, PAUL N.	Consulting Engineer, San Miguel Cons. Gold Mining Co., Telluride, Colo.	{ A April 17, 1895 M Feb. 26, 1895
O'CONNELL, JOSEPH J.	Telephone Engineer, Chicago Telephone Co., Residence, 76 Eugene St., Chicago, Ill.	{ A Oct. 17, 1894 M Nov. 20, 1895
O'DEA, MICHAEL TORPEY	Professor of Applied Electricity, University of Notre Dame, Notre Dame, Ind.	{ A June 8, 1887 M Mar. 25, 1896
UDIN, MAURICE	Electrical Engineer, General Electric Co., Schenectady, N. Y.	{ A June 20, 1894 M Nov. 20, 1895
PAINE, F. B. H.	Westinghouse Electric and Mfg. Co., 328 Exchange Building, Boston, Mass.	{ A Dec. 16, 1890 M Nov. 25, 1891
PAINE, SIDNEY B.	General Electric Co., 180 Summer St., Boston, Mass.	{ A June 8, 1887 M Nov. 1, 1887
PARKER, LEE HAMILTON	Ass't Engineer, Railway Dept., General Electric Co., Schenectady, N. Y.	{ A Aug. 5, 1895 M Dec. 16, 1896
PARKS, C. WELLMAN	1825 Fifth Ave., Troy, N. Y.	{ A July 12, 1887 M May 1, 1888
PARSHALL, HORACE FIELD	Electrical Engineer, British Thomson-Houston, Ltd., 38 Parliament St., Westminster, London, Eng.	{ A Sept. 7, 1888 M Mar. 18, 1890
PATTISON, FRANK A.	Firm of Pattison Bros, Consulting and Constructing Electrical Engineers, 136 Liberty St., New York City.	{ A Sept. 22, 1891 M Dec. 16, 1891
PEARSON, F. S.	Engineer, Room 841, 621 Broadway, New York City.	{ A Oct. 25, 1892 M Feb. 21, 1893
PEROT, L. KNOWLES	Vice-President and Manager, Schuylkill Valley Illuminating Co., Phoenixville, Pa.	{ A Mar. 15, 1892 M Dec. 18, 1895
PERRINE, FREDERIC A. C., D. Sc.	Professor of Electrical Engineering, Leland Stanford, Jr., University, Palo Alto, Cal.	{ A Sept. 16, 1890 M Dec. 16, 1890
PERRY, NELSON W., E. M.,	Editor <i>Electricity</i> , 136 Liberty St., New York City; residence, 650 Madison Ave., Elizabeth, N. J.	{ A May 17, 1892 M Mar. 21, 1893
PICKERNELL, F. A.	(Manager.) Chief Engineer, Amer. Tel. & Tel. Co., 153 Cedar St., New York City.	{ A Feb. 7, 1890 M Mar. 18, 1890
PIERCE, RICHARD H.	Pierce & Richardson, Electrical Engineers, 1409 and 1410 Manhattan Bldg., Chicago; residence, 5434 Monroe Ave., Hyde Park, Ill.	{ A April 18, 1893 M Dec. 20, 1893

Name.	Address.	Date of Membership.
PIKE, CLAYTON W., B.S.	Electrical Engineer, Falkenau Engineering Co., 711 Reading Terminal, Philadelphia, Pa.	{ A Dec. 16, 1891 M Oct. 25, 1892
PORTER, J. F.	Manager, Alton Railway and Illuminating Co., Alton, Ill.	{ A Sept. 6, 1887 M Nov. 1, 1887
POTTER, WM. BANCROFT,	Engineer Railway Dept., General Electric Co., Schenectady, N. Y.	{ A Jan. 22, 1896 M Mar. 25, 1896
POWELL, WILLIAM H.	Electrical Engineer, 55 Oak St., Hartford, Ct.	{ A June 17, 1890 M Mar. 20, 1893
PRATT, ROBERT J.	Greenbush, N. Y.	{ A July 12, 1887 M Sept. 6, 1887
PUFFER, WM. L.	(Manager.) Assistant Professor of Electrical Engineering, Mass. Institute of Technology, Boston; residence, West Newton, Mass.	{ A Dec. 20, 1893 M April 17, 1895
RAE, FRANK B.	Electrical Engineer, 1109 Fort Dearborn Bldg., 134 Monroe St., Chicago, Ill.	{ A April 15, 1884 M Oct. 25, 1892
REBER, SAMUEL	Lieut. Signal Corps, U. S. Army, Care of Chief Signal Officer U. S. A., Washington, D. C.	{ A Sept. 20, 1893 M Jan. 22, 1896
RECKENZAUN, FREDERICK.	Electrical Engineer, 44 Pine St., New York City.	{ A Mar. 6, 1888 M June 5, 1888
REIST, HENRY G.	Designing Engineer, General Electric Co., 5 South Church St., Schenectady, N. Y.	{ A June 17, 1890 M Dec. 19, 1894
RICE, E. WILBUR, JR.	Technical Director, The General Electric Co., Schenectady, N. Y.	{ A Dec. 6, 1887 M Jan. 3, 1888
RIES, ELIAS E.	Electrical Engineer and Inventor, 1031 Temple Court; residence, 4 W. 115th St., New York City.	{ A July 12, 1887 M Sept. 6, 1887
RIKER, ANDREW L. [Life Member.]	Electrical Engineer, The Riker Electric Motor Co., 45 York St., Brooklyn; residence, Stamford, Conn.	{ A Nov. 1, 1887 M Dec. 18, 1895
ROBB, RUSSELL	With Stone & Webster, 4 P. O. Square, Boston, Mass.	{ A Oct. 18, 1893 M May 21, 1895
ROBB, WM. LISPENARD	Professor of Physics, Trinity College, Hartford, Conn.	{ A Dec. 16, 1891 M Mar. 15, 1892
ROBERTS, E. P.	E. P. Roberts & Co., Electrical and Mechanical Engineers, Brainard Block, Telephone 2656, Cleveland, O.	{ A Jan. 6, 1885 M Feb. 3, 1885
RODGERS, HOWARD S.	Electrical Engineer, care General Electric Co., 264 W. 4th Street, Cincinnati, O.	{ A Sept. 27, 1892 M May 16, 1893
ROHRER, ALBERT L.	Electrical Engineer, with General Electric Co., Schenectady, N. Y.	{ A Nov. 1, 1887 M May 1, 1888
ROLLER, JOHN E.	Lieut. U. S. N., in charge of Inspection and Installation, U. S. Navy Yard, New York; residence, Cranford, N. J.	{ A Sept. 19, 1894 M May 19, 1896

Name.	Address.	Date of Membership.
ROSS, NORMAN	Assistant Works Engineer, Canadian General Electric Co., Peterboro, Ont.	{ A Sept. 20, 1893 M Nov. 21, 1894
ROSS, ROBERT A.	Mechanical and Electrical Consulting Engineer, 17 St. John St., Montreal, P. Q.	{ A Sept. 27, 1892 M April 18, 1893
ROUQUETTE, WILLIAM F. B.	Proprietor, Rouquette & Co., 47 Dey St., New York City.	{ A Mar. 21, 1894 M Dec. 19, 1894
RYAN, HARRIS, J.	(Vice-President.) Professor of Electrical Engineering, Cornell University, Ithaca, N. Y.	{ A Oct. 4, 1887 M April 17, 1895
SALOMONS, Sir DAVID LIONEL, <i>Bart. M. A.</i> , Engineer and Barrister, Broomhill, Tunbridge Wells, Kent, and 49 Grosvenor St., London, W. England.		{ A Feb. 7, 1888. M May 1, 1888.
SANDS, H. S.	Consulting and Constructing Electrical Engineer, Peabody Building, Wheeling, W. Va.	{ A Feb. 21, 1893 M Nov. 21, 1894
SARGENT, W. D.	General Manager, N. Y. & N. J. Tel. Co., 16 Smith St., Brooklyn, N. Y.	{ A April 15, 1884. M Feb. 21, 1894
SCHEFFLER, FRED. A.	Stirling Boiler Co., 126 Liberty Street, New York City; residence, Passaic, N. J.	{ A May 16, 1893 M Jan. 26, 1896
SCHMID, ALBERT	Superintendent, Westinghouse Electric and Mfg. Co., Pittsburg, Pa.	{ A Oct. 21, 1890 M April 17, 1895
SCHOEN, A. M.	Electrician, South Eastern Tariff Association, Norcross Building, Atlanta, Ga.	{ A Sept. 20, 1893 M Dec. 16, 1896
SCOTT, CHARLES F.	(Manager.) Chief Electrician, Westinghouse Electric and Mfg. Co., Pittsburg, Pa.	{ A April 19, 1892 M Jan. 17, 1893
SEVER, GEORGE F.	Instructor in Electrical Engineering, Columbia University, New York City.	{ A Jan. 17, 1894 M May 19, 1896
SHALLENGER, O. B.	Consulting Electrician, Westinghouse Electric and Mfg. Co., of Pittsburg; Rochester, Pa.	{ A Sept. 7, 1888 M Dec. 4, 1888
SHAW, EDWIN C.	Manager, Akron General Electric Co., Akron, O.	{ A May 17, 1892 M Feb. 27, 1895
SHEA, DANIEL W.	Professor of Physics, Catholic University of America, Washington, D. C.	{ A Dec. 20, 1893 M June 20, 1894
SHEBLE, FRANKLIN	Sheble & Patton, Ltd., 1026 Filbert St., Philadelphia, Pa.	{ A Oct. 21, 1890 M Dec. 18, 1895
SHELDON, SAMUEL, <i>A. M., Ph.D.</i> Professor of Physics and Electrical Engineering, Polytechnic Institute, 1984 Schermerhorn St., Brooklyn, N. Y.		{ A Dec. 16, 1890 M Oct. 27, 1891
SHEPARD, WM. E.	Steinway Railway Co., Long Island City, N. Y.	{ A Feb. 7, 1890 M Mar. 18, 1890
SHEPARDSON, GEORGE D.	Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn.	{ A April 21, 1891 M Jan. 22, 1896

Name.	Address.	Date of Membership.
SINCLAIR, H. A.	Electrical Engineer, The Tucker Electric Co., 950 Bedford Ave., Brooklyn, N. Y.	{ A June 17, 1890 M Feb. 26, 1896
SMITH, FRANK STUART	Supt. Lamp Factory, Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.	{ A Sept. 27, 1892 M April 18, 1893
SMITH, JESSE M.	Expert in Patent Causes, Consulting Electrical and Mechanical Engineer, 36 Moffat Block, Detroit, Mich.	{ A April 15, 1884 M June 26, 1891
SMITH, T. CARPENTER	Mechanical and Electrical Engineer, 212 Drexel Building, Philadelphia, Pa.	{ A Oct. 27, 1891 M Dec. 16, 1891
SPAULDING, HOLLON C.	Electrical Engineer, Manager, N. E. Office, Manhattan General Construction Co., 611 John Hancock Bldg., Boston, Mass.	{ A April 21, 1891 M June 20, 1894
SPERRY, ELMER A.	Electrical Engineer, Sperry Electric Railway Co., Mason and Belden Sts., Cleveland, O.	{ A April 19, 1892 M Feb. 21, 1893
STANDFORD, WILLIAM	Asst. Supt. Telegraphs, Colonial Govt., Cape Town, Cape of Good Hope, Africa.	{ A Oct. 4, 1887 M Dec. 6, 1887
STEARNS, CHARLES K. E. E.	Room 15, 116 Bedford Street, and 85 Westland Avenue, Boston, Mass.	{ A Aug. 6, 1889 M May 16, 1893
STEARNS, JOEL W., JR.	Treasurer, Mountain Electric Co., Box 1545, Denver, Col.	{ A June 20, 1894 M Nov. 20, 1895
STEBBINS, THEODORE	Superintendent Railway Construction, General Electric Co., Schenectady, N. Y.	{ A July 9, 1889 M June 17, 1890
STEINMETZ, CHARLES P.	(Vice-President.) Electrician, General Electric Co., Schenectady, N. Y.	{ A Mar. 18, 1890 M April 21, 1891
STEPHENS, GEORGE	General Supt., Canadian General Electric Co., Ltd., Peterboro, Ont.	{ A June 20, 1894 M Dec. 18, 1895
STIERINGER, LUTHER	Electrical Expert, Morris Building, 68 Broad St., New York City.	{ A June 8, 1887 M Nov. 1, 1887
STILLWELL, LEWIS B.	(Manager.) Electrical Engineer and Assistant Manager, Westinghouse Electric and Mfg Co., Pittsburgh, Pa.	{ A April 19, 1892 M Nov. 15, 1892
STOTT, HENRY G.	Electrical Engineer, Buffalo Gen'l Electric Co., Buffalo, N. Y.	{ A Sept. 25, 1895 M April 22, 1896
TAINTOR, GILES	Division Supt. Western Division New England Telephone and Telegraph Co., Springfield, Mass.	{ A June 26, 1891 M Dec. 16, 1891
TALTAVALL, THOS. R.	Electrical World, 253 Broadway, New York City.	{ A Jan. 20, 1891 M Oct. 27, 1891
TERRY, CHARLES A.	Lawyer, Westinghouse Electric and Mfg. Co., 120 Broadway, New York City.	{ A April 5, 1887 M May 17, 1887

Name.	Address.	Date of Membership.
THOMAS, BENJAMIN F., <i>P.A. D.</i>	Professor of Physics, Ohio State University, Columbus, O.	{ A June 7, 1892 M Nov. 15, 1892
THOMSON, PROF. ELIHU (<i>Past President</i>).	Electrician, General Electric, and Thomson Electric Welding Companies, Lynn, Mass.	{ A April 15, 1884 M April 21, 1891
THOMPSON, EDWARD P.	Consulting Electrician and Patent Attorney in Electrical Cases, 5 Beekman St., New York City.	{ A April 15, 1884 M Dec. 3, 1889
THURNAUER, ERNST	Manager, Thomson-Houston International Elec. Co., 27 Rue de Londres, Paris, France.	{ A Oct. 14, 1887 M Dec. 6, 1887
TISCHENDOERFER, F. W.	Electrical Engineer, Schückert & Co., Nuremberg, Germany.	{ A April 19, 1892 M Nov. 21, 1894
TRAFFORD, EDWARD W.	Electrical Engineer, Richmond Railway and Electric Co., Foot of 7th St., Richmond, Va.	{ A Feb. 21, 1894 M Dec. 19, 1894
TURNER, WILLIAM S.	Consulting and Constructing Electrical and Mechanical Engineer, 253 Broadway, New York City.	{ A Dec. 7, 1886 M Oct. 2, 1888
UEBELACKER, CHAS. F.	Electrical Engineer, Consolidated Traction Co., 30 North 11th St., Newark, N. J.	{ A Feb. 7, 1890 M Nov. 15, 1893
UHLENHAUT, FRITZ, JR.	Philadelphia Traction Co., 4101 Harverford St., Philadelphia, Pa.	{ A May 7, 1889 M Dec. 19, 1894
UPTON, FRANCIS R.	Sales-Manager, National Tube Works Co., McKeesport, Pa.	{ A May 17, 1887 M Mar. 15, 1892
VAIL, J. H.	Engineer-in-Chief, Penn. Heat, Light and Power Co., and Edison Electric Light Co., 909 Walnut St., Philadelphia, Pa.	{ A June 8, 1887 M Nov. 1, 1887
VANSIZE, WILLIAM B.	(<i>Manager</i> .) Solicitor of Patents and Expert, 253 Broadway; residence, 100 W. 74th St., New York City.	{ A April 15, 1884 M Oct. 21, 1884
VAN TRUMP, C. REGINALD	Engineer and Manager, Wilmington City Electric Co., Wilmington, Del.	{ A Feb. 5, 1886 M Feb. 21, 1894
WADDELL, MONTGOMERY	Consulting Engineer, 72 Trinity Place, New York City.	{ A Feb. 7, 1888 M May 1, 1888
WAIT, HENRY H.	Assistant Electrical Engineer, Western Electric Co., 4919 Madison Ave., Chicago, Ill.	{ A Sept. 20, 1893 M June 20, 1894
WALDO, DR. LEONARD	Electrical Engineer, Secretary, The Waldo Foundry, 37 Coleman St., Bridgeport, Conn.	{ A June 5, 1888 M Dec. 4, 1888
WALKER, SYDNEY F.	Electrical Engineer, 195 Severn Road, Cardiff, Wales.	{ A June 2, 1895 M May 17, 1887
WARING, JOHN	Ovid, N. Y.	{ A Dec. 16, 1890 M April 17, 1895
WARNER, ERNEST P.	Electrical Engineer, Western Electric Co.; residence, 402 Belden Ave., Chicago, Ill.	{ A Sept. 20, 1893 M June 20, 1894

Name.	Address.	Date of Membership.
WATERMAN, F. N.	Electrical Engineer, Westinghouse Electric and Mfg. Co., 120 Broadway, New York City.	{ A Feb. 21, 1893 M June 20, 1894
WEAVER, W. D.	(Manager.) 7 West 26th St., New York City.	{ A May 17, 1887 M May 17, 1887
WEBB, HERBERT LAWS	18 Cortlandt St.; residence, 253 West 42d St., New York City.	{ A Oct. 21, 1890 M Dec. 16, 1890
WEEKS, EDWIN R.	Rooms 301 to 303, National Bank of Kansas City Building, Kansas City, Mo.	{ A Sept. 6, 1887 M Nov. 1, 1887
WELLER, HARRY W.	Electrical Engineer, Room 206, Equitable Building, Boston, Mass.	{ A Oct. 21, 1890 M Nov. 24, 1891
WESTON, EDWARD	(Past President.) Vice-President, Weston Electrical Instrument Co., 120 William St., and 645 High St., Newark, N. J.	{ A April 15, 1884 M Oct. 21, 1884
WETZLER, JOSEPH	Editor <i>The Electrical Engineer</i> , 203 Broadway, New York City.	{ A April 15, 1884 M Dec. 9, 1884
WHARTON, CHAS. J.	82 Bond St., London, Eng.	{ A Jan. 3, 1883 M May 1, 1883
WHEELER, SCHUYLER SKAATS, <i>Sc.D.</i> [Life Member.]	President, Crocker-Wheeler Electric Co., 39 Cortlandt St., N. Y., and Ampere, N. J.; residence, 4 West 33d St., New York City.	{ A June 2, 1885 M Sept. 1, 1885
WHITE-FRASER, GEO.	<i>Mem. Can. Soc. C. E.</i> ; 18 Imperial Loan Building, Toronto, Ont.	{ A Sept. 22, 1891 M Dec. 18, 1895
WIENER, ALFRED E.	Electrical and Mechanical Engineer; residence, 208 Liberty St., Schenectady, N. Y.	{ A May 16, 1893 M May 15, 1894
WILCOX, NORMAN T.	Manager and Electrician, Seneca Light and Power Co., Seneca Falls, N. Y.	{ A May 21, 1895 M Jan. 22, 1896
WILKES, GILBERT	Consulting Electrical Engineer, 1112 Union Trust Building, Detroit, Mich.	{ A Jan. 7, 1890 M Mar. 18, 1890
WILLYOUNG, ELMER G.	E. G. Willyoung & Co., Scientific Instruments and Apparatus, 938 Market St., Philadelphia.	{ A Nov. 24, 1891 M Dec. 20, 1893
WILSON, CHARLES H.	Monadnock Building, Chicago Ill.	{ A Nov. 24, 1891 M Feb. 16, 1892
WILSON, FREMONT	Electrician, 66 Maiden Lane, (Telephone, 1651 Cortlandt) and 2153 Seventh Ave., New York City.	{ A Mar. 6, 1888 M June 5, 1888
WILSON, HARRY C.	Supt. of P. O. Telegraph with the Government, Kingston, Jamaica, West Indies.	{ A Jan. 19, 1891 M June 7, 1892
WINCHESTER, A. E.	Consulting Engineer and Designer of Electric Systems, South Norwalk, Conn.	{ A June 8, 1887 M Nov. 1, 1887
WINSLOW, GEORGE HERBERT	Consulting Electrical Engineer, 700 Lewis Block, 6th Ave., and Smithfield St., Pittsburg, Pa.	{ A April 17, 1895 M Feb. 26, 1896

MEMBERS.

Name.	Address.	Date of Membership.
WIRT, CHARLES	Consulting Engineer, 1028 Filbert St., Philadelphia, Pa.	{ A Sept. 8, 1888 M June 20, 1894
WOLCOTT, TOWNSEND	Electrician, 1002 Bennett Building, New York City.	{ A Mar. 6, 1888 M Dec. 16, 1890
WOLVERTON, B. C.	Electrician, N. Y. & Pa. Telephone and Telegraph Co., Elmira, N. Y.	{ A Mar. 18, 1890 M Feb. 21, 1895
WOODBIDGE, J. L.	Secretary and Treasurer, Woodbridge & Turner Engineering Co., 47 Times Building, New York City.	{ A June 8, 1887 M Nov. 1, 1887
WRIGHT, PETER	General Superintendent, People's Electric Light and Power Co., 36 Mechanic St., Newark, N. J.	{ A May 16, 1889 M Jan. 16, 1895
WURTS, ALEXANDER JAY	Westinghouse Electric & Mfg. Co., Pittsburg, Pa.	{ A April 19, 1892 M Nov. 15, 1892
YOUNG, C. GRIFFITH	Electrical Engineer, White-Crosby Co., 706 Equitable Building, Baltimore, Md.	{ A Jan. 3, 1889 M April 21, 1891

Members, - - - 348.

ASSOCIATE MEMBERS

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ASSOCIATE MEMBERS.

Name.	Address.	Date of Election.
ABELLA, JUAN	Director General of Public Lighting, Buenos Aires: residence, 691 Calle Bolivar. Buenos Aires, Argentine Republic.	Aug. 5, 1896
ADAE, CHAS. FLAMEN	X-Ray Laboratory, P. O. Box, 2809; residence, 36 West 35th Street, New York City.	Dec. 16, 1896
ADAMS, COMFORT A., JR.	Instructor in Electrical Engineering, Harvard University, 13 Farrar St., Cambridge, Mass.	Jan. 17, 1894
ADAMSON, DANIEL	Manager Joseph Adamson & Co., Hyde, Cheshire, England.	Feb. 26, 1896
AGNEW, CORNELIUS R.	Electrical Engineer, 150 Nassau St., 23 West 39th St., New York City.	Mar. 21, 1894
ALBANESE, G. SACCO	Electrical Expert, Compagnie Francaise Thomson-Houston, 27 Rue de Londres, Paris, France.	Sept. 20, 1893
ALBERT, HENRY	Electrical Engineer, 815 Main St., Jacksonville, Fla.	Feb. 21, 1893
ALDEN, JAMES S.	Assistant Manager, with L. H. Alden, 486 River Drive, Passaic, N. J.	May 19, 1891
ALDRICH, WILLIAM S.	Professor of Mechanical Engineering and Director Mechanical Arts, West Virginia University, P. O. Box 256, Morgantown, W. Va.	Mar. 15, 1892
ALEXANDER, HARRY	Electrical Engineer, General Manager and Vice Pres. Alexander-Chamberlain Electric Co., 56 West 22d St., and 348 W. 145th St., New York City.	April 21, 1891
ALEXANDER, P. H.	Manager, Lighting Dept., Electric Selector and Signal Co., 43 Cortlandt St., New York City.	Dec. 16, 1890
ANDERSON, HENRY S.	General Manager and Electrician, United Electric Light Co., Springfield, Mass.	Jan. 16, 1895
ANDREWS, WILLIAM, C.	Electrical Engineer, Royal Electric Co.; residence, 147 Metcalfe St., Montreal, P. Q.	May 21, 1895
ANSON, FRANKLIN ROBERT	Receiver, Salem Consolidated Street Railway Co., Salem, Ore.	Feb. 27, 1895
ANTHONY, WATSON G.	Electrician, 32½ Webster St., Newark, N. J.	Feb. 24, 1891
APPLEYARD, ARTHUR E.	Manager and Engineer, Natick Gas and Electric Co., Natick, Mass.	Aug. 5, 1896
ARCHBOLD, WM. K.	Westinghouse Electric and Mfg. Co. 328 Exchange Bldg., Boston, Mass.	June 20, 1894
ARCHER, GEO. F.	Electrical Engineer, 31 Burling Slip, New York City.	Nov. 21, 1894
ARMSTRONG, CHAS. G.	Electrical Expert, 1306 Great Northern Hotel Building, Chicago, Ill.	Sept. 27, 1892

Name.	Address.	Date of Election.
ARNOLD, CRAIG R.	Electrician and Treasurer, Arnold Electric Co., Chester and Sharon Hill, Pa.	Nov. 15, 1892
ASHLEY, FRANK M.	Master Mechanic, Ashley Engineering Works, 69 Beekman St., New York.	Nov. 21, 1894
AUSTIN, SYDNEY B.	55 Franklin St.; residence, 130 West 83rd Street, New York.	Sept. 25, 1895
AUERBACHER, LOUIS J.	Auerbacher & Venino, Electrical Engineers and Contractors, 317 Market St., Newark, N. J.	Sept. 20, 1893
BABCOCK, CLIFFORD D.	[Address unknown.]	Feb. 21, 1894
BADAU, ISAAC F.	Assistant to the Engineer, New York Telephone Co.; residence, 162 Prince St., Brooklyn, N. Y.	Feb. 26, 1896
BALDWIN, JAS. C. T.	Superintendent Bell Telephone Co., of Mo.; 10th and Olive Sts., St. Louis, Mo.	April 17, 1895
BALL, WM. D.	Consulting Electrical Engineer. W. D. Ball & Co., 1625 Monadnock Block, Chicago, Ill.	Nov. 20, 1895
BANCROFT, CHAS. F.	Electrical Engineer, Lowell and Suburban Street Railway, Lowell, Mass.	Dec. 18, 1895
BARNOUR, FRED FISKE	Manager, Power and Mining Department, Pacific District, General Electric Co., 15 First St., San Francisco, Cal., and 1673 Valdez St., Oakland, Cal.	May 16, 1893
BARNARD, JOHN H.	Interior Telephone Co., 203 Broadway, New York City.	June 26, 1891
BARNES, EDWARD A.	Electrical Expert, Fort Wayne Electric Co., Fort Wayne, Ind.	Sept. 20, 1893
BARRY, DAVID	Electrician and Superintendent, Amherst Gas Co., Amherst, Mass.	Aug. 5, 1896
BARSTOW, WILLIAM S.	General Supt., Edison Electric Illuminating Co., 360 Pearl St., Brooklyn, N. Y.	Feb. 21, 1894
BARTH-BARTOSHEVITCH, A.	Mechanical and Electrical Engineer, [Address unknown.]	May 16, 1893
BARTLETT, EDWARD E.	Member Firm Bartlett & Co., 23 Rose St., New York City.	June 6, 1893
BARTON, ENOS M.	President Western Electric Co., 227 South Clinton St., Chicago, Ill.	July 12, 1887
BATES, FREDERICK C.	Electrical Engineer, General Electric Co., 44 Broad St., New York City.	Jan. 20, 1891
BAUER, W. F.	Electrician, Reisterstown, Md.	April 15, 1890
BEAMES, CLARE F.	General Electric Co., Monadnock Block, Chicago, Ill.	May 21, 1895
BEATTIE, JOHN, JR.	Manager and Superintendent, The Beattie Battery, Zinc and Electric Co., Fall River, Mass.	Sept. 6, 1887

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
BELL, ORA A.	Electrical Engineer, Western Electric Co., 22 Thames St., New York; residence, 921 St. Nicholas Ave., New York.	Aug. 5, 1896
BENNETT, EDWIN H., JR.	Electrician and Engineer, Diehl & Co., Elizabethport, N. J., and 17 E. 33d St., Bayonne, N. J.	June 20, 1894
BENNETT, JOHN C.	Electrician, General Electric Co., 44 Broad St., New York City.	Mar. 18, 1890
BENOLIEL, SOL D.	1327 Broadway; residence, 120 W. 35th St., New York City	Oct. 21, 1896
BENTLEY, MERTON H.	Chicago Telephone Co.; residence, 221 Scoville Ave., Oak Park, Ill.	Oct. 18, 1893
BERG, ERNST JULIUS	Engineer, General Electric Co.; residence, 53 Washington Ave., Schenectady, N. Y.	Sept. 19, 1894
BERG, ESKIL	Electrical Engineer, Gen'l Electric Co., Schenectady, N. Y.	Nov. 20, 1895
BERGHOLTZ, HERMAN	Secretary and Treasurer, Ithaca Street Railway Co., Ithaca, N. Y.	April 2, 1889
BERLINER, EMILE	Inventor, Columbia Road, between Fourteenth and Fifteenth Sts., Washington, D. C.	April 15, 1884
BERRESFORD, ARTHUR W.,	<i>B. S., M. E.</i> Electrician, Ward Leonard Electric Co., Hoboken, N. J.	May 15, 1894
BEST, A. T.	Electrical Engineer, Miami, Florida.	April 19, 1894
BETHELL, U. N.	General Manager, The New York Telephone Co., 18 Cortlandt St., N. Y. City.	Jan. 17, 1894
BETTS, HOBART D.	Member of Inspection Dept., The Edison Elec. Ill'm'g Co. of N. Y.; residence, Englewood, N. J.	Aug. 5, 1896
BETTS, PHILANDER 3d	Electrician, U. S. Navy Yard, Washington, D. C.	Mar. 25, 1896
BIDDLE, JAMES G.	Drexel Bldg., Philadelphia, Pa.; residence, 264 Rittenhouse St., Germantown, Pa.	Aug. 5, 1896
BIJUR, JOSEPH, <i>A. B., E. E.</i> [Life Member.]	Manager, Electric Arc Light Co., 687 Broadway; residence, 172 West 75th St., New York City.	May 15, 1894
BLACK, CHAS. N.	Walker Company, 140 Winchester Ave., New Haven, Ct.	April 19, 1890
BLAKE, HENRY W.	Editor, <i>Street Railway Journal</i> , 26 Cortlandt St., New York City.	Nov. 13, 1888
BLAKE, THEODORE W.	125 Milk Street, Boston, Mass.	Sept. 20, 1893
BLANCHARD, CHARLES M.	Winterburn, Pa.	Sept. 19, 1894
BLAXTER, GEO. H.	Vice-President and General Manager, Allegheny County Light Co., Westinghouse Building, Pittsburg, Pa.	Sept. 25, 1895
BLISS, GEORGE S.	Electrical Engineer, Central District and Printing Telegraph Co., Telephone Bldg., Pittsburg, Pa.	June 20, 1894

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
BLISS, WM. J. A.	Johns Hopkins University, Baltimore, Md.	Jan. 20, 1891
BLISS, WILLIAM L., B. S., M. M. E.	Electrical Engineer, Consolidated Gas Co., 4 Irving Place, New York City; residence, 24 Irving Place, Brooklyn, N. Y.	Mar. 21, 1894
BLIZARD, CHARLES	Sales Agent. Electric Storage Battery Co., 66 Broadway; residence, Passaic, N. J.	Nov. 21, 1894
BOARDMAN, HARRY B.	1530 Grand Ave., Milwaukee, Wis.	Sept. 20, 1893
BOGART, A. LIVINGSTON	Electrical and Patent Expert, 22 Union Square, New York City.	July 10, 1888
BOGGS, LEMUEL STEARNS	Reed Hotel, Ogden, Utah.	Sept. 20, 1893
BOGUE, CHARLES J.	Manufacturer and Dealer in Electrical Supplies, 206 Centre St., N. Y. City.	Dec. 3, 1889
BOHM, LUDWIG K., Ph.D.,	Consulting Electrical and Chemical Expert, 117 Nassau St., N. Y. City.	Nov. 15, 1892
BOLAN, THOMAS V.	Supervising and Constructing Engineer, The General Electric Co., Schenectady, N. Y.; residence, 869 N. 41st St., Philadelphia, Pa.	Aug. 5, 1896
BOYLES, THOMAS D.	Electrical Engineer, General Electric Co.; residence, 58 Washington Ave., Schenectady, N. Y.	Mar. 20, 1895
BRACKETT, PROF. CYRUS F.	Princeton, N. J.	April 15, 1889
BRADDELL, ALFRED E.	Electrical Inspector, Underwriters' Association, Middle Department, 316 Walnut St., Philadelphia, Pa.	Sept. 1, 1890
BRADY, E. D. A.	Consulting and Constructing Engineer, 95 Bank St., Lock P. O. Box 132, Waterbury, Conn.	Sept. 19, 1894
BRADY, FRANK W., M. E.	Professor of Engineering and Physics, New Mexico College of Agriculture and Mechanic Arts, Mesilla Park, N. M.	June 20, 1894
BRADY, PAUL T.	Manager, Central N. Y. Agency, Westinghouse Electric and Mfg. Co., Syracuse, N. Y.	July 12, 1887
BRAGG, CHARLES A.	Manager Phila. Agency, Westinghouse Electric and Mfg. Co., 302 Girard Building, Philadelphia, Pa.	Sept. 20, 1893
BRAYSHAW, I.	Telegraph Inspector Great Southern Railway, City of Buenos Aires.	Aug. 5, 1896
BRIEY, W. R.	Proprietor and Manufacturer, Day's Kerite Wire and Cables, 203 Broadway, New York City.	Sept. 20, 1893
BROICH, JOSEPH	Superintendent and Electrician, with F. Pearce, New York City; residence, 448 8th Ave., Brooklyn, N. Y.	Jan. 17, 1894
BROPHY, WILLIAM	Electrician to the Wire Department, 12 Old Court House, Boston; residence, 17 Egleston St., Jamaica Plain, Mass.	Mar. 5, 1889

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
BROWN, CHAS. L.	Ass't Eng. Pintsch Compressing Co., and Foreman 150th St. Plant, 160 Broadway, New York City.	Nov. 20, 1893
BRYANT, WALDO C.	Manager and Treasurer, The Bryant Electric Co., Bridgeport, Conn.	May 16, 1893
BUBERT, J. F.	Supervising and Contracting Electrical Engineer, 402 Exchange Bldg., (Telephone 1379) Boston, Mass.	June 7, 1892
BUCK, HAROLD W.	14 East 45th St., New York City.	Jan. 16, 1895
BUCKINGHAM, CHAS. L.	Patent Attorney, Western Union Tele- graph Co., 195 Broadway, P. O. Box 556, New York City.	April 15, 1884
BUNCE, THEODORE D.	The Storage Battery Supply Co., 239 E. 27th St., New York City.	May 20, 1890
BURGESS, CHAS. FRED'K.	Inspector in Electrical Engineering, University of Wisconsin, Madison, Wis.	Mar. 25, 1896
BURKE, JAMES	Firm of Herrick & Burke, 150 Nassau St., New York City.	May 16, 1893
BURNETT, DOUGLASS, B. S.	Edison Illuminating Co., Inspection Dept., 55 Duane St., New York City; residence, 42 Livingston St., Brooklyn, N. Y.	Feb. 21, 1893
BURT, BYRON T.	Manager and Sec'y. and Treas. Charles- ton Light and Power Co., Charles- ton, S. C.	Sept. 25, 1895
BURTON, PAUL G.	Constructing Electrician, Western Electric Co.; residence, 164 W. 129 St., New York City.	Nov. 20, 1895
BURTON, WILLIAM C.	With White-Crosby Co., 29 Broadway, New York, N. Y.	Sept. 20, 1893
BUTLER, WILLIAM C.	President, The Puget Sound Reduction Co., Everett, Washington.	Mar. 21, 1893
BUYS, ALBERT	Electrical Engineer, The Rahway Electric Light and Power Co., Rah- way, N. J.	Feb. 7, 1890
BYRNS, ROBERT A.	98 Ferry St., Lafayette, Ind.	Dec. 16, 1896
CABOT, FRANCIS ELLIOTT	Supt. of Inspection and Electrician, Boston Board of Fire Underwriters, 55 Kilby Street; residence, East Milton, Mass.	April 17, 1895
CABOT, JOHN ALFRED	City Electrician, 115 W. 8th St., Cin- cinnati, O.	May 16, 1893
CALDWELL, EDWARD	Manager, Railway Advertising Co., 261 Broadway, New York City.	Jan. 20, 1891
CALDWELL, FRANCIS C.	Assistant Professor of Electrical En- gineering, Ohio State University, Columbus, O.	June 20, 1894
CANFIELD, MILTON C.	Electrical Engineer, 18 Clinton St., Cleveland, O.	Feb. 21, 1893
CANFIELD, MYRON E.	Western Electric Co.; residence, 404 W. 44th St. New York City.	May 21, 1895

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
CAPUCCIO, MARIO	Raimondo & Capuccio, Consulting Engineers and Patent Agents, Piazza Statuto 15, Turin, Italy.	Dec. 20, 1893
CARICHOFF, E. R.	Electrical Engineer, Sprague Electric Elevator Co., Bloomfield, N. J.	Mar. 21, 1894
CARPENTER, CHAS. E.	Vice-President, Carpenter Enamel Rheostat Co.; residence, 36 W. 35th St., New York.	Aug. 5, 1896
CARSON, DAVID I.	Secy. and Gen. Supt., The Southern Bell Telephone and Telegraph Co., 26 Cortlandt St., New York City.	Dec. 21, 1892
CARTY, J. J.	Engineer, New York Telephone Co., 18 Cortlandt St., New York City; residence, Cranford, N. J.	April 15, 1890
CASE, WILLARD E.	196 Genesee St., Auburn, N. Y.	Feb. 7, 1888
CASPER, LOUIS	Electrical Engineer and Contractor, 307 New Ridge Bldg., Kansas City, Mo.	April 21, 1891
CHADBOURNE, HENRY R., JR.	Electrical Engineer, 130 Bedford St., Boston, Mass.	May 15, 1894
CHAPMAN, A. WRIGHT	Electrical Engineer, 160 Hicks St., Brooklyn, N. Y.	Mar. 25, 1896
CHENEY, FREDERICK A.	Maple Avenue, Elmira, N. Y.	Oct. 1, 1889
CHERMONT, ANTONIO LEITE	Engineer, Firm of Chermont, Silva and Miranda, Box 252, Para, U. S. Brazil.	Mar. 18, 1890
CHESNEY, C. C.	Electrician, Stanley Laboratory, Pittsfield, Mass.	June 20, 1894
CHILDS, SUMNER W.	The Degnon Construction Co., 26 Wade Bldg., Cleveland, Ohio.	May 15, 1894
CHILDS, WALTER H.	Brattleboro, Vt.	Sept. 6, 1887
CHISM, GEORGE F.	Civil Engineer, 92 State St., Albany, N. Y.	Mar. 21, 1893
CHUBBUCK, H. EUGENE	Vice-President, The Pueblo Electric Street Railway Co., Pueblo, Col.	Dec. 4, 1888
CLARK, CHAS. M.	Student, Electrical Course, Columbia University; residence, 831 Madison Ave., New York City.	April 22, 1896
CLARK, LEROY, JR.	Electrician, Safety Insulated Wire and Cable Co., 229 West 28th St., residence, 350 West 30th St., New York City.	May 15, 1894
CLARK, WILLIAM J.	General Manager, Railway Dept. General Electric Co., 44 Broad Street, New York City.	April 22, 1896
CLEMENT, LEWIS M.	1013 Central Ave., Oakland, Cal.	April 21, 1891
CLOUGH, ALBERT L.	Box 114, Manchester, N. H.	Feb. 21, 1894
CODY, L. P.	Manager and Engineer, Grand Rapids Electric Co., 9 South Division St., Grand Rapids, Mich.	Aug. 5, 1896
COFFIN, CHAS. A.	General Electric Co., 180 Summer St., Boston, Mass.	Dec. 6, 1887

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
COGSWELL, A. R.	Electrician and Superintendent, Halifax Illuminating and Motor Co., Ltd., 34 Bishop St., Halifax, N. S.	April 21, 1891
COHO, HERBERT B.	H. B. Coho & Co., Electrical Engineers, 203 Broadway, New York City.	Mar. 21, 1894
COLES, EDMUND P.	Electrical Engineer, General Electric Co., Schenectady, N. Y.	Oct. 23, 1895
COLGATE, GEO. L.	Electrical Engineer, Ironclad Rheostat Co., Westfield, N. J.; residence, Fanwood, N. J.	June 17, 1890
COLLES, GEORGE W. JR.	Constructing Engineer, The Viscol Co., 118 Charles St., Boston, Mass.	Oct. 23, 1895
COLLETT, SAMUEL D.	Engineer Construction Dep't. New York Telephone Co., 18 Cortlandt St., New York City; residence, Van Pelt Manor, N. Y.	Feb. 26, 1896
COLVILLE, FRANK C.	Electrician and Inventor, 1503 Seventh Ave., Oakland, Cal.	May 19, 1891
COMPTON, ALFRED G.	Professor of Applied Mathematics, College of the City of New York, 17 Lexington Ave., New York City.	Nov. 1, 1887
COOLIDGE, CHARLES A.	Electrical Engineer, Superintendent, Northern Improvement Co., 591 Hood St., Portland, Ore.	April 19, 1892
COREY, FRED BRAINARD	Sec'y Springfield Elevator and Pump Co., Springfield, Mass.	Dec. 20, 1893
CORNELL, JOHN B.	Supt. of Construction, with Chas. L. Cornell, Hamilton, O.	Sept. 25, 1895
CORSON, WILLIAM R. C.	Electrical Engineer, The Eddy Electric Mfg. Co., Windsor, Conn.	Jan. 17, 1893
CORY, CLARENCE L.	Professor of Electrical Engineering, University of California, Berkeley, Cal.	April 19, 1892
CRAIN, JOHN JAY,	Electrician's Helper, Niagara Falls Power Co., Niagara Falls, N. Y.	Dec. 16, 1896
CRANDALL, CHESTER D.	Assistant Treasurer, Western Electric Co., 227 South Clinton St.; residence, 4438 Ellis Ave. Chicago, Ill.	Sept. 27, 1892
CRANE, W. F. D.	Manager Electrical Department H. W. Johns Manufacturing Co., 87 Maiden Lane, New York City; residence, 24 Halstead Pl., East Orange, N. J.	Feb. 7, 1888
CRAWFORD, DAVID FRANCIS	Ass't to Supt. Motive Power, Penn'a Co., Fort Wayne, Ind.	Sept. 25, 1895
CRAWFORD, L. G.	Sup't, Repair Dep't General Electric Co., Chicago, Ill.	Oct. 23, 1895
CREAGHEAD, THOMAS J.	President and General Manager, Creaghead Engineering Co., 296 Plum St., Cincinnati, O.	Sept. 20, 1893
CREHORE, ALBERT C., <i>Ph.D.</i>	Assistant Professor of Physics, Dartmouth College, Hanover, N. H.	Dec. 21, 1892

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
CREWS, J. W.	Manager, Southern Bell Telephone and Telegraph Co., 124 Main St., Norfolk, Va.	Sept. 19, 1894
CRIGGAL, JOHN E.	Electrician, 12 Nelson Place, Newark, N. J.	June 20, 1894
CROSBY, OSCAR T.	White-Crosby Co., 1417 G Street, Washington, D. C.	Mar. 18, 1890
CROXTON, A. L.	Electrical Engineer, Standard Electric Co., 7118 Drexel Ave., Chicago, Ill.	June 20, 1894
CUMNER, ARTHUR B.	69 Broad St., Boston, Mass.	Feb. 27, 1895
CUNNINGHAM, E. R.	Sup't Fort Dodge Light and Power Co., Fort Dodge, Iowa.	Jan. 22, 1896
CUNTZ, JOHANNES H.	Assistant to President Henry Morton, Stevens Institute of Technology, 325 Hudson St., Hoboken, N. J.	Mar. 5, 1889
CURTIS, CHAS. G.	410 Havemeyer Bldg., New York City,	April 15, 1884
DA CUNHA, MANOEL IGNACIO	Manager of the Electrical Section, Emprera Industrial Gram-Para, Para, U. S. of Brazil.	May 16, 1893
DAME, FRANK L.	General Sup't, Tacoma Railway and Motor Co., Tacoma, Wash.	June 26, 1897
DANA, R. K.	Agent, Washburn and Moen Mfg. Co., 16 Cliff St., New York City.	April 15, 1884
DANIELSON, ERNST	Consulting Electrician, 16 Scheele Gatan, Stockholm, Sweden.	June 27, 1895
DARROW, ELEAZAR	Professor M. E. Dept. Washington Agr. College, Pullman, Wash.	Aug. 5, 1896
DAVENPORT, C. G.	Expert and Agent, General Electric Co., 44 Broad St., New York City.	Nov. 21, 1894
DAVENPORT, GEORGE W.	61 Ames Bldg., Boston, Mass.	June 4, 1889
DAVIDSON, EDW. C.	Patent Lawyer, Room 179 Times Bldg., New York City.	Feb. 7, 1890
DAVIS, DELAMORE L.	Superintendent, Salem Electric Light and Power Co., 299 Lincoln Ave., Salem, O.	April 2, 1889
DAVIS, JOSEPH P.	Engineer, American Bell Telephone Co., 113 W. 38th St., New York City.	April 15, 1884
DAVIS, W. J., JR.	Electrical Engineer, General Electric Co., Schenectady, N. Y.	Mar. 20, 1895
DAWSON, PHILIP	Associate and Chief Engineer with R. W. Blackwell, 39 Victoria St., Westminster, London, Eng.	Sept. 25, 1895
DECKER, EDWARD P.	Electrical Engineer, New York Telephone Co., 18 Cortlandt St., New York City; residence, Van Pelt Manor, N. Y.	Feb. 26, 1896
DEGEN, LEWIS	Constructing Engineer, Gen'l Electric Co., Rio de Janeiro, Brazil.	Sept. 25, 1895

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
DEKHOTINSKY, CAPT. ACHILLES.	Late Chief Electrician and Torpedo Officer. Imperial Russian Navy, American Bell Telephone Co., 42 Farnsworth St., Boston, Mass.	Oct. 27, 1891
DELANCEY, DARRAGH	Manager of Kodak Park Works, Eastman Kodak Co., Rochester, N. Y.	Sept. 19, 1894
DENTON, JAMES E.	Professor of Experimental Mechanics, Stevens Institute of Technology, Hoboken, N. J.	July 12, 1887
DESMOND, JERE. A.	Electrical Engineer, Boston Electric Light Co., Ames Bldg., Boston, Mass.	Jan. 19, 1892
DEWAR, JOHN THOMAS	Electrical Expert, Western Electric Co.; residence, 33 Rue Bouewijns, Antwerp, Belgium.	May 21, 1895
DEY, HARRY E.	Pres't and Gen'l Mgr. Dey-Griswold Co., 108 Fulton St., New York City, residence, 342 Tenth St., Brooklyn, N. Y.	Dec. 19, 1894
DICKERSON, E. N.	Attorney-at-Law, 64 E. 34th St., New York City.	April 15, 1884
DOBBIE, ROBERT S.	Electrical Engineer, Riding Mill-ontyne, Northumberland, Eng.	Feb. 5, 1889
DOOLITTLE, CLARENCE E.	Manager and Electrician, Roaring Fork Electric Light and Power Co., Aspen, Colo.	May 15, 1894
DOOLITTLE, THOMAS B.	Engineering Department, American Bell Telephone Co., 125 Milk St., Boston, Mass.	May 16, 1893
DOREMUS, CHARLES A.	<i>M.D. Ph.D.</i> 59 W. 51st St., New York City.	July 7, 1884
DORR, FRANK H.	Electrical Engineer, General Electric Co., Monadnock Building, Chicago, Ill.	May 15, 1894
DRESSLER, CHARLES E.	17 Lexington Ave., New York City.	Dec. 16, 1890
DRYSDALE, WILLIAM A.	Consulting Electrical Engineer, Hale Building, Philadelphia, Pa.	Sept. 19, 1894
DU BOIS, JULIAN	Chief Electrician, Mohawk Division N. Y. C. & H. R. R. R. Albany, N. Y.	Nov. 20, 1895
DUNCAN, JOHN D. E.	333 S. 4th St., Terre Haute, Ind.	Mar. 20, 1895
DUNCAN, THOMAS	Electrician, Laboratory Fort Wayne Electric Corporation, 407 Broadway, Fort Wayne, Ind.	Oct. 17, 1894
DUNLAP, WILL KNOX	Electrical Engineer, Westinghouse Elec. and Mfg. Co., Niagara Falls, N. Y.	Sept. 25, 1895
DUNN, KINGSLEY G.	Dunn & McKinley, Electrical Contractors, 523 Mission St., San Francisco, Cal.	Oct. 17, 1894

Name.	Address.	Date of Election.
DURANT, EDWARD	Electrician, 115 East 26th St., New York City.	Nov. 15, 1892
DURANT, GEO. F.	Vice-Pres't Bell Telephone Co., of Mo., 511 No. 4th St., St. Louis, Mo.	April 15, 1884
DYER, FRANCIS MARON	Associate Engineer with Chas. L. Eidlitz, 10 West 23d St.; residence, 355 Lenox Ave., New York City.	Sept. 19, 1894
EDDY, H. C.	Electrical Engineer and Contractor, Lees Building, Chicago, Ill.	June 20, 1894
EDEN, MORTON EDWARD	Electrical Inspector, Western District the Underwriters' Association of the Middle Department, 245 Fourth Ave., Pittsburg; residence, Warren Pa.	Sept. 19, 1894
EDWARDS, JAMES P.	Electrical Engineer, 1569 Walton Way, Augusta, Ga.	April 19, 1892
EGLIN, WM. C. L.	Chief of Electrical Department, Edison Electric Light Co., 909 Walnut St.; residence, 4230 Chester Ave., Philadelphia, Pa.	Sept. 19, 1894
EIDLITZ, CHAS. L.	10 West 23d St.; residence, 1125 Madison Ave., New York City.	Sept. 19, 1894
EKSTROM, AXEL	Electrical Engineer, General Electric Co.; Schenectady, N. Y.	June 17, 1890
ELEY, HARRIS H.	Electrical Workshop Supt. W. C. & S. W. Telephone Co., 88 Colston St., Bristol, Eng.	Jan. 7, 1890
ELLICOTT, EDWARD B.	Superintendent of Construction, Western Electric Co., 4438 Ellis Ave., Chicago, Ill.	Sept. 19, 1894
ELMER, WILLIAM, JR.	Electrical Engineer, Trenton Iron Co., Trenton, N. J.	Mar. 18, 1890
ELY, WM. GROSVENOR, JR.	8 Union Street, Schenectady, N. Y.	Mar. 21, 1893
EMMET, HERMAN L. R.	Publisher and Printer, 36 Cortlandt St., New York City.	April 15, 1884
ENDE, SIEGFRIED H.	1459 Madison Ave., New York City.	Jan. 17, 1894
ENTZ, JUSTUS BULKLEY	Electrical Engineer, Electric Storage Battery Co., 19th St., and Allegheny Ave., Philadelphia, Pa.	Jan. 7, 1890
ERICKSON, F. WM.	Edison Electric Illuminating Co., 3 Head Place, Boston, Mass.	Sept. 19, 1894
ESSICK, SAMUEL V.	Electrician, Consolidated Telegraph and News Co., 53 Park Place, New York; residence, Yonkers, N. Y.	May 19, 1891
ESTY, WILLIAM	Assistant Professor of Electrical Engineering, State University, Urbana, Ill.	Mar. 20, 1895
ETHERIDGE, LOCKE	Chicago Telephone Co.; residence, 4714 Kenwood Ave., Chicago, Ill.	Oct. 17, 1894
ETHERIDGE, E. L.	Care of J. P. Hall, 143 Liberty St., New York City.	Dec. 20, 1893

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
EVANS, EDWARD A.	Acting Chief Engineer, The Quebec, Montmorency and Charlevoix Railway, Quebec, Canada.	Jan. 22, 1896
EYRE, M. K.	Manager Harrison Works, General Electric Co., Harrison, N. J.	Oct. 17, 1894
FARNSWORTH, ARTHUR J.	The Capo-Farad Battery and Appliance Works, 27 Thames Street, New York City.	Jan. 16, 1895
FAY, THOMAS J.	Crocker-Wheeler Electric Co., 143 Liberty St., New York City.	June 26, 1891
FIELDING, FRANK E. [Life Member.]	Chemist and Assayer, Virginia City, Nev.	Sept. 6, 1887
FIRTH, WM. EDGAR	Chief Engineer, The Midvale Steel Co., Nicetown, Philadelphia; residence, 7203 Boyer St., Germantown, Pa.	Mar. 25, 1896
FISCHER, GUSTAVE J.	Engineer for Tramway Construction, Public Works Department, Sydney, N. S. W.	Jan. 30, 1891
FISH, MILTON L.	106 Nordyke Ave., Indianapolis, Ind.	Oct. 21, 1896
FISHER, HENRY W.	Electrician and Director of Elec. and Chem. Laboratories; The Standard Underground Cable Co., Pittsburg, Pa.	Jan. 16, 1895
FISKE, J. PARKER B.	164 Devonshire St., Boston, Mass.	June 17, 1890
FLAGG, STANLEY G., JR.	Stanley G. Flagg & Co., 19th St., and Penna. Ave., Philadelphia, Pa.	April 18, 1893
FLANAGAN, THOMAS FRANCIS	General Manager, Suburban Light and Power Co., 32 Hawley Street, Boston, Mass.	Jan. 17, 1894
FLATHER, JOHN J.	Professor of Mechanical Engineering, Purdue University, Lafayette, Ind.	April 19, 1892
FLEGEL, GEO. C.	East Chicago, Ind.	Sept. 20, 1893
FLEMING, RICHARD	Electrician, Navy Yard, N. Y.; residence, Jamaica, N. Y.	Oct. 18, 1893
FLESCH, CHARLES	Electrical Engineer, Allgemeine Elektrizitäts-Gesellschaft, 22 Schiffbauerdamm, Berlin, N. W. Germany.	Sept. 27, 1892
FLINT, BERTRAM P.	Electrical and Mechanical Engineer, Supt. Washington, Alexandria and Mt. Vernon Electric Railway Co., Washington, D. C.	Jan. 17, 1894
FLOOD, J. F.	Sup't Steubenville Traction Co., Steubenville, O.	Mar. 18, 1890
FLORY, CURTIS B.	Link Belt Engineering Co., Nicetown, Philadelphia, Pa.	April 22, 1896
FLOY, HENRY	Engineer Westinghouse Electric and Mfg. Co., 171 La Salle St.; residence, 5540 Cornell Ave., Chicago, Ill.	May 17, 1892
FOOTE, ALLEN R.	American Exporter, 1144 Broadway, New York City.	April 21, 1891

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
FOOTE, CHARLES W.	General Manager, Citizens Traction Co., San Diego, Cal.	Sept. 22, 1891
FOOTE, THOS. H.	Electrical Engineer. C & C. Electric Co., Garwood, near Westfield, N. J.	April 21, 1891
FORBES, FRANCIS	Lawyer, 32 Nassau St., New York City.	Sept. 16, 1890
FORBES, GEORGE	Electrical Engineer, 34 Great George St., London, Eng.	Feb. 21, 1894
FORD, FRANK R., <i>M. E.</i>	Consulting Engineer, Ford & Bacon, 203 Broadway, New York City.	Mar. 25, 1896
FORD, WM. S.	Assistant to Chief Engineer, The American Bell Telephone Co., Room 73, 125 Milk St., Boston, Mass.	June 7, 1892
FRANCISCO, M. J.	President and General Manager, Rutland Electric Light Co., Rutland, Vt.	June 17, 1890
FRANKLIN, W. S.	Prof. of Physics, Iowa State College, Ames, Iowa.	Jan. 22, 1896
FRANTZEN, ARTHUR	Electrical Engineer and Contractor, 225 Dearborn St., Chicago, Ill.	Feb. 21, 1894
FRENCH, PROF. THOMAS, JR.	<i>Ph.D.</i> Avondale, Cincinnati, O.	Sept. 20, 1893
FRENEYAR, THOMAS C.	Westinghouse Electric and Mfg. Co., Erie County Bank Bldg., Buffalo, N. Y.	Sept. 25, 1895
FREV, CHARLES P.	123 Monmouth Street, Newark, N. J.	June 6, 1893
FRIDENBERG, HENRY LESLIE, <i>M. E.</i>	Stanley Mfg. Co., (Meter Dept.,) Pittsfield, Mass.	Jan. 16, 1895
FRIEDLAENDER, EUGENE	Electrician, Carnegie Steel Company, Duquesne, Pa.	Nov. 20, 1895
FROST, FRANCIS R.	Westinghouse Electric and Mfg. Co., 427 South Ave., Wilkinsburg, Pa.	Dec. 20, 1893
FROST, JOSEPH W.	Secretary, National Automatic Fire Alarm, 335 Broadway, New York City.	Mar. 20, 1895
GALLAHER, EDWARD B.	Consulting and Supervising Engineer, 99 Cedar St.; residence, 1190 Madison Ave., New York City.	Jan. 19, 1895
GALLETLY, J. FRED.	Electrician, Swift & Co., Chicago, Ill.	Mar. 21, 1894
GARRELS, W. L.	4531 West Pine Boulevard, St. Louis, Mo.	Mar. 20, 1895
GERRY, JAMES H.	Superintendent, The Self-Winding Clock Co., 163 Grand Ave., Brooklyn, N. Y.	April 18, 1894
GERSON, LOUIS JAY	Engineer and Contractor, 712 Sansom St.; residence, 637 S. 49th St., Philadelphia, Pa.	Sept. 19, 1894
GHERARDI, BANCROFT, JR.,	Assistant in the Engineering Dept. New York Telephone Co.; residence, 30 East 33d St., N. Y. City.	June 27, 1895

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
GIBBS, LUCIUS T.	Manager and Chief Engineer, Gibbs Electric Co., Milwaukee, Wis.	Mar. 25, 1896
GILLILAND, E. T.	Pelham Manor, N. Y.	April 15, 1884
GILMORE, LUCIEN H.	Prof. of Physics and Electrical Engineering, Throop Polytechnic Institute, Pasadena, Cal.	Mar. 20, 1895
GITHENS, WALTER L.	Manager, H. P. Elec. Light and Power Co., 7284 So. Chicago Ave.; residence, 5101 Kimbark Ave., Chicago, Ills.	Jan. 22, 1896
GLADING, FRANK W., <i>M. E.</i>	<i>M. S.</i> With Wm. Cramp & Sons, Ship and Engine Building Co., Philadelphia, Pa.	May 15, 1894
GLADSTONE, JAMES WM.	Manager, Edison Mfg. Co., 110 East 23d St.; residence, West Orange, N. J.	April 18, 1894
GODDARD, CHRIS. M.	Secretary and Electrician, New England Insurance Exchange. Sec'y Underwriters' National Electric Ass'n, 55 Kilby St., Boston, Mass.	April 22, 1896
GOLDMARK, CHAS. J.	Electrical Engineer, 39 Cortlandt St., and 473 Park Ave., New York City.	June 5, 1888
GOLDSBOROUGH, WINDER E., <i>M. E.</i>	Associate Professor of Electrical Engineering, Purdue University, Lafayette, Ind.	Mar. 21, 1893
GORTON, CHARLES	Civil Engineer, Belmont, N. Y.	Nov. 12, 1889
GORDON, REGINALD	Tutor in Physics, Columbia College, residence, 339 Lexington Ave., New York City.	Feb. 24, 1891
GORRISEN, CH.	With Siemens & Halske, Franklinstrasse 29, Charlottenburg, Ger.	Mar. 25, 1896
GOSSLER, PHILIP G.	Electrical Engineer, Royal Electric Co. 94 Queen St., Montreal, P. Q.	June 20, 1894
GOTT, CLARENCE P.	Chief Engineer and Electrician Grand Central Palace; residence, 83 Washington Place, New York City.	Nov. 20, 1895
GRAHAM, GEORGE WALLACE	80 Decatur St., Brooklyn, N. Y.	Dec. 19, 1894
GRANBERY, JULIAN H.	Draughtsman, with Post & McCord, 289 4th Ave., N. Y.; residence, Closter, N. J.	Aug. 5, 1896
GREENLEAF, LEWIS STONE	Electrical Expert, The American Bell Telephone Co., 42 Farnsworth St.; residence, "The Ludlow," Clarendon St., Boston, Mass.	Aug. 5, 1896
GREEN, ELWIN CLINTON	Testing Department and Installing Work, Jenney Electric Motor Co., 206 South East St., Indianapolis, Ind.	Mar. 25, 1896
GRIFFES, EUGENE	Senior Partner, Firm of Griffes and Sumner, 506 South Broadway, Los Angeles, Cal.	Feb. 26, 1896
GRIFFIN, CAPT. EUGENE	First Vice-President, General Electric Co., Schenectady, N. Y.; residence, 323 State St., Albany, N. Y.	Feb. 7, 1890

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
GRIST, JAMES E.	Mechanical Engineer, Pennsylvania Iron Works Co., 50th and Lancaster Ave.; residence, 918 North 44th St., Philadelphia, Pa.	Mar. 20, 1895
GROSS, S. ROSS	Electrician, Tennessee Coal, Iron and R.R. Co., Ensley, Ala.	May 17, 1892
GROWER, GEORGE G.	Electrician and Chemist, Ansonia Brass and Copper Co., Ansonia, Conn.	Mar. 18, 1890
GUY, GEORGE HELI	Secretary, The New York Electrical Society, 203 Broadway, New York City.	May 16, 1893
HADLEY, ARTHUR L.	Assistant Electrician to Chief Electrician and Gen'l Supt., Fort Wayne Electric Corporation, 149 Griffith St., Fort Wayne, Ind.	Oct. 17, 1894
HADLEY, WARREN, B.	30 Cortlandt St., New York City.	June 26, 1891
HADLEY, FRED'K W.	Electrical Eng'r, Arlington Heights, Mass.	Aug. 5, 1896
HAKONSON, CARL HAROLD	Eslof, Sweden.	Sept. 25, 1895
HALL, EDWARD J.	Vice-President and General Manager, American Telephone and Telegraph Co., 18 Cortlandt St., New York City.	April 18, 1893
HALL, EDWIN H.	Assistant Professor of Physics, Harvard College, Gorham St., Cambridge, Mass.	Sept. 3, 1889
HALL, J. P.	Electrical Contractor, 143 Liberty St., N. Y.; residence, 200 W. 136th St., N. Y.	Aug. 5, 1896
HALL, WILLIAM P.	President, The Hall Signal Co., Vice-President The Johnson Railroad Signal Co., 44 Broad St., New York City.	Sept. 16, 1890
HALSEY, WILLIAM B.	Electrician and Horologist, 246 Elton St., Brooklyn, N. Y.	Mar. 18, 1890
HAMERSCHLAG, ARTHUR A.	Electrical Expert, and Owner Hamerschlag & Co., 26 Liberty St., New York City.	Mar. 25, 1896
HAMMATT, CLARENCE S.	Supt., Jacksonville Electric Light Co., Jacksonville, Fla.	Sept. 20, 1893
HAMMER, EDWIN W.	Electrical Engineer, 46 Second Ave., Newark, N. J.	Nov. 18, 1896
HANCHETT, GEO. T.	Electrical and Technical Engineer, 253 Broadway, N. Y.; residence, Hackensack, N. J.	May 19, 1896
HANCOCK, L. M.	P. O. Box 151, Nevada City, Cal.	May 19, 1891
HARDING, H. MCL.	253 Broadway, New York City.	May 24, 1887
HARRIS, GEORGE H.	Electrical Engineer, Birmingham Railway and Electric Co., Birmingham, Ala.	June 20, 1894
HARRIS, W. C., JR.	Electrician, Harris & Williamson, Birmingham, Ala.	April 17, 1895

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election
HART, FRANCIS R.	President and General Manager, Cartagena-Magdalena Railway Co., care of Old Colony Trust Co., 1 Court St., Boston, Mass.	April 21, 1891
HARTMAN, HERBERT T.	Cor. 10th and Sansom Streets, Philadelphia, Pa.	Mar. 21, 1893
HARVEY, ROBERT R. [Life Member.]	10 So. Franklin St., Wilkes-Barre, Pa.	Sept. 25, 1895
HATHAWAY, JOSEPH D., JR.	Assistant in Cable Dep't Western Electric Co., 22 Thames St., N. Y. City.	Aug. 5, 1896
HATZEL, J. C.	Electrical Engineer and Contractor, 114 Fifth Ave., New York City.	Sept. 3, 1889
HEALY, LOUIS W.	Mechanical Engineer's Office, Altoona, Pa.	June 26, 1891
HEDENBERG, WM. L.	Firm of Hedenberg & Kinsey, Consulting and Constructing Engineers, 108 Fulton St.; residence, 83 Clinton Place, New York City.	Nov. 21, 1894
HENDERSON, HENRY BANKS	Graduate Student Cornell University, 686 Willoughby Ave., Brooklyn, N. Y.	May 21, 1895
HESSENBRUCH, GEORGE S.	Student at the College at Berlin, Berliner Str. 75, Charlottenburg, Germany.	June 27, 1895
HEWITT, CHARLES E.	Electrician, Hyer-Sheehan Electric Motor Co., 100 Johnson St., Newburgh, N. Y.	Sept. 25, 1895
HEWITT, WILLIAM R.	Superintendent, Fire Alarm and Police Telegraph, 9 Brenham Place, San Francisco, Cal.	May 15, 1894
HEWLETT, EDWARD M.	Electrical Engineer, Railway Dept. General Electric Co., Schenectady, N. Y.	May 19, 1891
HILL, GEORGE, C.E.	Consulting Engineer, 44 Broadway, New York City.	April 19, 1892
HILL, NICHOLAS S., JR.	Engineer of the Electrical Commission of Baltimore. 508 Equitable Bldg., Baltimore, Md.	Aug. 5, 1896
HOBART, HENRY M.	Engineer, care British Thomson-Houston Co., 83 Cannon St., London Eng.	April 18, 1894
HOCHHAUSEN, WILLIAM	Electrician, 74 Hanson Pl., Brooklyn, N. Y.	April 15, 1884
HOLBERTON, GEORGE C.	Engineer, Oakland Gas Light and Heat Co., 13th and Clay Sts., Oakland, Cal.	May 15, 1894
HOLT, MARMADUKE BURRELL.	Mining and Electrical Engineer, 287 Lexington Ave. New York, N. Y.	April 15, 1890
HOMMEL, LUDWIG	Supt. of Construction, Standard Underground Cable Co., Westinghouse Building, Pittsburg, Pa.	Jan. 20, 1897
HOOD, RALPH O.	Electrical Engineer, Danvers, Mass.	April 18, 1894

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
HOPKINS, NEVIL MONROE	Electrical Engineer, 1730 I Street, Washington, D. C.	Nov. 20, 1895
HORNSBY, HARRY H.	Electrical Inspector, 16 City Hall, Chicago, Ill.	June 27, 1895
HOWSON, HUBERT	Patent Lawyer, 38 Park Row, New York City.	June 8, 1887
HUBBARD, ALBERT S.	Electrical and Mechanical Engineer, The Electro Chemical Storage Bat- tery Co., Belleville, N. J.	Nov. 20, 1895
HUBBARD, WILLIAM C.	Engineering Department, The Electric Arc Light Co., 689 Broadway, New York City; residence, 427 West 7th St., Plainfield, N. J.	April 18, 1894
HUBLEY, G. WILBUR	Electrical Engineer, Louisville Electric Light Co.; residence, Kenton Club, Louisville, Ky.	Sept. 19, 1894
HUBRECHT, DR. H. F. R.	Director, Nederlandsche Bell Tele- phone Co., Amsterdam, Holland.	Oct. 4, 1887
HUDSON, JOHN E.	President, The American Bell Tele- phone Co., 125 Milk St., Boston, Mass.	Dec. 20, 1893
HUGGINS, N. W.	Salesman, etc., General Electric Co., Seattle, Wash.	Aug. 5, 1896
HUGUET, CHAS. K.	Electrical Engineer, 693 W. Adams St., Chicago, Ill.	June 27, 1895
HULL, S. P.	Chief Electrician of Hudson Div. N. Y. C. & H. R. R. Co., Pough- keepsie, N. Y.	May 19, 1896
HULSE, WM. S.	Electrical Engineer, Fort Wayne Elec- trical Corporation, 228 Fairfield Ave., Fort Wayne, Ind.	Mar. 25, 1896
HUMPHREY, HENRY H.	Consulting Electrical Engineer, Bryan & Humphrey, Times Building, St. Louis, Mo.	Dec. 16, 1896
HUMPHREYS, C. J. R.	Manager, Lawrence Gas Co., and Edison Electrical Ill. Co., Law- rence, Mass.	Sept. 6, 1887
HUNT, ARTHUR L.	Electrician, W. R. Fleming & Co., 203 Broadway, New York City.	Sept. 19, 1894
HUNTLEY, CHAS. R.	General Manager, Buffalo General Electric Co., 40 Court St., Buffalo, N. Y.	Sept. 23, 1895
HUTCHINSON, FREDERICK L.	Electrical Engineer with Westing- house Electric and Mfg. Co., East Pittsburg, Pa.	June 20, 1894
IDELL, FRANK E.	Havemeyer Building, 26 Cortlandt St., New York City.	July 12, 1887
IHLDER, JOHN D.	Electrical Engineer, Otis Electric Co., Yonkers, N. Y.	Oct. 2, 1888
IJIMA ZENTARO,	In charge of Transformer Testing Dep't., Wagner Elec. Mfg. Co., 2017 Locust St., St. Louis, Mo.	Jan. 22, 1896

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
INGOLD, EUGENE	Consulting Engineer and Expert, 1669 Second Ave., Pittsburg, Pa.	April 18, 1894
INSULL, SAMUEL	President, Chicago Edison Co., 513 Rookery, Chicago, Ill.	Dec. 7, 1886
IRVINE, DREW W.	Box 167, Montgomery, Ala.	Sept 25, 1895
IWADARE, KUNIHICO	Electrician, 19 Second St., Nakanoshima, Japan.	Sept. 20, 1893
IZARD, E. M.	Electrical Engineer, Room 1409, 315 Dearborn St., Chicago, Ill.	Mar. 5, 1889
JAEGER, CHARLES L.	Inventor, Maywood, N. J.	Dec. 20, 1893
JACKSON, THEODORE K.	137 56th Street, Chicago, Ill.	May 21, 1895
JACKSON, WM. STEELL	326 St. Paul St., Baltimore, Md.	April 22, 1896
JOHNSTON, W. J.	<i>The Electrical World</i> , 253 Broadway, New York City.	April 15, 1884
JONES, ARTHUR W.	Care of Gibbs, Bright & Co., Melbourne, Australia.	Oct. 17, 1894
JONES, F. R.	Professor of Machine Design, University of Wisconsin, Madison, Wis.	May 20, 1890
JONES, G. H.	Agent, General Electric Co., Casilla 18 D Santiago; residence, Iquiqui, Chili.	April 17, 1895
JONES, HENRY C.	Member of Firm, the Electric Construction and Supply Co., Montgomery, Ala.	Mar. 20, 1895
JUDSON, WM. PIERSON	U. S. Civil Engineer, Oswego, N. Y.; temporary address, U. S. Engineers Office, Buffalo, N. Y.	June 8, 1887
KAMMEYER, CARL E.	Electrical Engineer, Maywood Ill.	Sept. 19, 1894
KEEFER, EDWIN S.	Supt. of Electric Light Construction, Western Electric Co., 22 Thames St., New York City; residence, Elizabeth, N. J.	April 18, 1894
KEILHOLTZ, P. O.	U. S. Electric Power and Light Co., Holliday and Centre Sts., Baltimore, Md.	Mar. 21, 1893
KELLER, E. E.	Vice-Prest. and General Manager, Westinghouse Machine Co., 224 Murtland Ave., Pittsburg, Pa.	Sept. 20, 1893
KELLER, EDWIN R., <i>M.E.</i>	Mechanical and Electrical Engineer, Falkenau Engineering Co., Ltd., 711 Reading Terminal, 4823 Springfield Ave., Philadelphia, Pa.	Mar. 21, 1894
KELLOGG, JAMES W., <i>M.E.</i>	General Electric Co., Lighting Dept., Schenectady, N. Y.	June 26, 1891
KENAN, WM. R. JR.	Chemist and Electrical Engineer, Australian Carbide Co., Sydney, N. S.W.	Jan. 20, 1897
KENNELLY, ARTHUR E. [Life Member.]	(<i>Manager.</i>) Electrician, Firm of Houston & Kennelly, 1105-1106 Betz Bldg.; residence, The Landsowne, 41st St. and Elm Ave., Philadelphia, Pa.	May 1, 1888

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
KER, W. WALLACE	Instructor of Electricity, Hebrew Technical Institute, 36 Stuyvesant St., New York City. Residence, 43 Waverly St., Jersey City, N. J.	Sept. 25, 1895
KING, VINCENT C., JR.	With V. C. & C. V. King, 517 West St.; residence, 110 East 16th Street, New York.	Aug. 5, 1896
KIRKEGAARD, J. GEORG	Mechanical and Electrical Engineer, 28 State Street, New York City; residence, Giffords, Staten Island, N. Y.	Sept. 20, 1893
KIRKLAND, JOHN W.	Electrical Engineer, General Electric Co., Schenectady, N. Y.	Mar. 21, 1894
KITTLER, DR. ERASMUS	Professor at the Technical High School, Darmstadt, Germany.	Dec. 16, 1896
KLINCK, J. HENRY	Dept. Electrical Engineering, Lehigh University, South Bethlehem, Pa.	Jan. 16, 1895
KNOX, FRANK H.	2116 N. Charles St., Baltimore, Md.	June 20, 1894
KNOX, GEO. W.	Electrical Engineer, Chicago City Railway Co., 2020 State St., Chicago, Ill.	Nov. 18, 1896
KNOX, JAMES MASON	Student in Electrical Engineering, Columbia University. School of Mines; residence, 32 West 129th St., New York City.	Jan. 17, 1894
KREIDLER, W. A.	Editor and Publisher, <i>Western Electrician</i> , 510 Marquette Building, Chicago, Ill.	Oct. 4, 1887
LABOUISEE, JOHN PETER	24 Front St., Schenectady, N. Y.	Aug. 5, 1896
LAMB, RICHARD	Chief Engineer, in charge business of the Lamb Electrical Cableways, The Trenton Iron Co., No. 1 Broadway; residence, 72 W. 69th St., New York.	Dec. 18, 1895
LAND, FRANK	The Hamilton, E. Genesee Street, Syracuse, N. Y.	Sept. 22, 1891
LANE, VANCE	Manager and Superintendent Construction, Nebraska Telephone Co., Omaha, Neb.	Dec. 19, 1894
LANPHEAR, BURTON S.	Instructor in Electrical Engineering, Maine State College, Orono, Me.	Jan. 16, 1895
LANMAN, WILLIAM H.	Board of Patent Control, 120 Broadway, New York City.	June 6, 1893
LARDNER, HENRY ACKLEY	Instructor in Electrical Engineering, State College, Penn.	Dec. 19, 1894
LARNED, SHERWOOD J.	Electrical Engineer, Chicago Telephone Co., 203 Washington St., Chicago, Ill.	Oct. 17, 1894
LARRABEE, ROLLIN N.	Western Electric Co., 242 Jefferson St., Chicago, Ill.	Mar. 20, 1895
LATHAM, HARRY MILTON	Member of Engineering Staff, Crocker-Wheeler Electric Co., Amperre, N. J.	Dec. 16, 1896
LAWTON, W. C.	Roselle, N. J.	June 6, 1893

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
LEBLANC, CHARLES	European Agent of the Walker Mfg. Co of Cleveland, O.; 24 Boulevard des Capucines, Paris, France.	April 17, 1895
LECONTE, JOSEPH NISRET	Instructor in Electrical Engineering, State University, Berkeley, Cal.	Feb. 27, 1895
LEDoux, A. R., <i>M. S., Ph.D.</i>	9 Cliff St., New York City.	Dec. 7, 1886
LEE, JOHN C.	Chemist, and Electrician, American Bell Telephone Co., Mountfort St., Longwood, Brookline, Mass.	Mar. 18, 1890
LEMON, CHARLES,	Hon. Sec'y for New Zealand for the Institution of Electrical Engineers, Palmerston, North, New Zealand.	Jan. 22, 1896
LENZ, KARL	Draughtsman, Brooklyn Union Gas Co., 400 Douglas Street, Brooklyn, N. Y.	May 19, 1896
LENZ, CHARLES OTTO	Electrical Engineer, Room 510, Industrial Trust Bldg., Providence, R. I.	Mar. 15, 1892
LE PONTOIS, LEON.	Electrical Engineer, The Westinghouse Elec. and Mfg. Co., Pittsburg, Pa.	Dec. 18, 1895
LESLIE, EDWARD ANDREW	Vice-President and Manager, Manhattan Electric Light Co., Ltd., New York City; residence, 343 Hancock St., Brooklyn, N. Y.	Jan. 16, 1895
LEVIS, MINFORD	Superintendent and Electrical Engineer, Novelty Electric Co., 54 North 4th St., Philadelphia, Pa.	Feb. 21, 1893
LEVY, ARTHUR B.	Assistant Engineer, Arc Light Dept., General Electric Co., 310 Lexington Ave., New York City.	Jan. 20, 1891
LEWIS, HENRY FREDERICK	WILLIAM, Redlands, 48 Sydenham Road, Croydon, Surrey, England.	Mar. 5, 1889
LIEBIG, GUSTAV A., JR.	Tarrytown, N. Y.	Mar. 6, 1888
LILLEY, L. G.	Electrical Inspector, Underwriters' Association of Cincinnati, S. W. Cor. 3d and Walnut Sts., Cincinnati, O.; residence, Wyoming, O.	June 20, 1894
LINCOLN, PAUL M.	Electrician-in-charge, Cataract Construction Co., Niagara Falls, N. Y.	Sept. 25, 1895
LINDNER, CHAS. T.	Martin & Lindner, Electrical Engineers, Luning Building, San Francisco, Cal., residence, Berkeley, Cal.	Dec. 20, 1893
LINDSAY, WM. E.	Chief Engineer, Dallas Ice Factory and Cold Storage Co., Dallas, Tex.	April 17, 1895
LITTLE, C. W. G.	Engineer, British Thomson-Houston Co., 38 Parliament Street, London, Eng.	April 22, 1896
LOEWENHERZ, HERMAN	Electrical and Mechanical Engineer, 1376 Lexington Ave., New York City,	Feb. 27, 1895
LORIMER, GEO. WM.	Superintendent of Construction, The Callender Telephone Exchange Co., Brantford, Canada.	Aug. 3, 1896

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
LORIMER, JAMES H.	Superintendent of Erection, The Candler Telephone Exchange Co., Troy, O.	Aug. 5, 1896
LOW, GEORGE P.	Editor and Proprietor, <i>Journal of Electricity</i> , San Francisco, Cal.	Jan. 17, 1893
LOZIER, ARTHUR DE LA M.	M. E. Salesman and Expert, Westinghouse, Church, Kerr & Co., 26 Cortlandt St.; residence, Hotel Winthrop, 125th St., W., New York City.	Mar. 25, 1896
LOZIER, ROBERT T. E.	Electrical Engineer, 150 Nassau St., New York City.	May 20, 1890
LUDLAM, HARRY W.	With Western Electric Co., 22 Thames St., New York City.	Dec. 18, 1895
LUNDELL, ROBERT	Electrical Engineer, Interior Conduit and Insulation Co., 527 W. 34th St., New York; residence, 47 Brevoort Pl., Brooklyn, N. Y.	Feb. 7, 1890
LUQUER, THATCHER, T. P.	New York Telephone Co., 18 Cortlandt St., residence, Bedford, N. Y.	June 26, 1891
LYMAN, CHESTER WOLCOTT,	M. A. Manager Herkimer Paper Co., Herkimer, N. Y.	Sept. 19, 1894
LYMAN, JAMES [Life Member.]	839 Union Street, Schenectady, N. Y.	Sept. 19, 1894
MACCOUN, ELLICOTT	Supt. of the Electrical Dep't., The Carnegie Steel Co., Braddock, Pa.	Nov. 20, 1895
MACCULLOCH, ROBERT C.	Manager, Jos. Lough Electric Co., 503 Fifth Ave.; residence, 209 W. 81st St., New York City.	Feb. 27, 1895
MACFADDEN, CARL K.	Electrical Engineer, Gas Engine Dep't Western Gas Construction Co., Fort Wayne, Ind.	Sept. 27, 1892
MACKIE, C. P.	30 Broad St., New York City; residence, Englewood, N. J.	Mar. 21, 1893
MACKINTOSH, FRED'K.	Electrical Engineer, General Electric Co.; residence, 9 South Church St., Schenectady, N. Y.	Mar. 25, 1896
MACLEOD, GEORGE	Superintendent and Engineer, Kentucky and Indiana Bridge Co., 29th and High Sts., Louisville Ky.; residence, New Albany, Ind.	Aug. 5, 1896
MACMULLAN, ROBERT HEATH,	Lafayette, Ind.	Sept. 22, 1891
MADDEN, OSCAR E.	[Address unknown.]	April 15, 1884
MAGEE, LOUIS J.	Electrical Engineer, Director, der Union Elektrizitäts Gesellschaft, Corneliusstr. 1., Berlin, W. Germany.	April 2, 1889
MAKI, HEIICHI	Chief Engineer, Kioto Traction Co., Suyemarucho Dotemachi Marutamachisagarn, Kioto, Japan.	Aug. 5, 1896
MALIA, JAMES P.	Electrician, Armour & Co., 5316 Union Ave., Chicago, Ill.	June 20, 1894
MANN, FRANCIS P.	[Address unknown.]	June 6, 1893
MANN, ROBERT BRUCE	507 Logan Ave., Milwaukee, Wis.	Sept. 25, 1895

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
MANSON, JAS. W.	Wire Chief, Franklin Street Exchange. New York Telephone Co.; residence, 973 Amsterdam Ave., New York City.	Mar. 25, 1896
MARTIN, A. J.	Complete Electric Construction Co., 121 Liberty St., New York City.	Mar. 15, 1892
MARTIN, FRANK	Electrical Engineer, Madison Square Garden Company, New York City.	Oct. 21, 1890
MARTIN, JAMES A.	Martin & Witte, Electrical and Me- chanical Engineers, 58 Centre St., New York City.	May 19, 1896
MARTIN, T. COMMERFORD	<i>(Past-President.)</i> Editor, <i>The Elec- trical Engineer</i> , 203 Broadway, New York City.	April 15, 1884
MASON, JAMES H.	Electrical Expert, 10 Fifth Ave., Brooklyn, N. Y.	May 19, 1891
MATTHEWS, CHARLES P.	Associate Professor, Electrical En- gineering, Purdue University, Lafa- yette, Ind.	May 16, 1893
MAXWELL, EUGENE	Superintendent, Third Street and Sub- urban Railway Co., Seattle, Wash.	Aug. 5, 1896
MAURO, PHILIP	Counsellor at-Law in Patent Causes (Pollock & Mauro), 620 F. St., Washington, D. C.	Dec. 21, 1892
MAYER, MAXWELL M.	Mfr. of Plating Dynamos, 2d Ave. and 121st St.; residence, 433 East 116th St., New York City.	Feb. 27, 1895
MAYRHOFER, JOS. CARL	Electrical Engineer, 165 W. 82d St., New York City.	June 20, 1894
MCBRIDE, JAMES	Superintendent, N. Y. & Boston Dye Wood Co., 146 Kent St., Brooklyn, N. Y.	Sept. 27, 1892
MCCARTHY, LAWRENCE A.	Western Union Telegraph Co., New York City, 1053 Bedford Ave., Brooklyn, N. Y.	Jan. 19, 1892
MCCARTHY, E. D.	Electrical Engineer, The F. P. Little Electric Construction and Supply Co., 135 Seneca St.; residence, 451 14th Street, Buffalo, N. Y.	Nov. 18, 1896
MCCLUER, CHAS. P.	District Inspector, So. Bell Tel. and Tel. Co., Richmond, Va.	Apr. 22, 1896
MCCLURG, W. A.	Manager, Electrical Dept., Plainfield Gas and Electric Light Co., 207 Madison Ave., Plainfield, N. J.	Dec. 20, 1893
MCELROY, JAMES F.	Mechanical Supt., The Consolidated Car Heating Co., 131 Lake Ave., Albany, N. Y.	Nov. 15, 1892
McKAY, C. R.	Consulting Engineer, 140 South Main St., Salt Lake City, Utah.	Dec. 20, 1893
McKIBBIN, GEORGE N.	Reed & McKibbin, General Street Railway Contractors, 30 Broad St., New York City.	June 8, 1887
McKISSICK, A. F.	Professor of Electrical Engineering, The A. & M. College of Ala., Auburn, Ala.	Feb. 16, 1892

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
MCKITTRICK, F. J. A.	Graduate Student Cornell University, 624 Western Avenue, Lynn, Mass.	Aug. 5, 1896
MCRÆ, AUSTIN LEE	Consulting Electrical Engineer, 306 Oriol Bldg., St. Louis, Mo.	May 17, 1892
MEADOWS, HAROLD GREGORY	Associate Engineer (Elec.) with Newcomb Carlton, 109 White Building; residence, 114 West Chippewa St., Buffalo, N. Y.	Sept. 23, 1896
MEDINA, FRANK P.	Electrician, Pacific Postal Telegraph Co., 534 Market St., San Francisco, Cal.	Sept. 19, 1894
MERCER, ANDREW G.	Electrician, Waterloo Electric Co., Waterloo, N. Y.	Sept. 3, 1889
MEREDITH, WYNN	Electrical Engineer, Hasson & Hunt, 310 Pine St., San Francisco, Cal.	Jan. 17, 1894
MERRILL, E. A.	Electrical Engineer, Pierce & Miller Engineering Co., 26 Cortlandt St., New York City.	Sept. 20, 1893
MERRILL, JOSIAH L.	Ass't to Estimating Engineer of the Construction Department, General Elec. Co., Schenectady, N. Y.	Sept. 25, 1895
MERRITT, ERNEST	Assistant Professor in Physics, Cornell University, Ithaca, N. Y.	Sept. 16, 1890
MERZ, CHAS. H.	British Thomson-Houston Ltd., 38 Parliament St., London, S.W.; resi- dence, The Quarries, Newcastle-on- Tyne, England.	Sept. 25, 1895
MEYER, JULIUS	Consulting Engineer, 44 Broad St., New York City.	Oct. 25, 1892
MIDDLEMISS, P. R.	Box 588, Schenectady, N. Y.	Mar. 20, 1895
MILLER, JOSEPH A.	Civil and Consulting Engineer, 25 Butler Exchange, Providence, R. I.	Dec. 9, 1884
MILLER, WM. C., <i>M. S.</i>	Electrical Engineer, 3 South Hawk St., Albany, N. Y.	Oct. 21, 1890
MINER, WILLARD M.	Electrician and Inventor, 428 East Sixth St., Plainfield, N. J.	July 12, 1887
MITCHELL, SIDNEY Z.	Manager, Oregon, Washington and Idaho Agency, General Electric Co., Fleischner Building, Portland, Ore.	Nov. 12, 1889
MOORE, WM. E.	General Superintendent, The Augusta Railway & Electric Co., Augusta, Ga.	Jan. 22, 1896
MONELL, JOSEPH T.	Consulting Electrical Engineer, 236 W 22d St., New York City.	Oct. 27, 1891
MONTAGUE, RALPH L.	Chief of Electrical Department, The Gold Dredging Co., Bannack, Mont.	Feb. 26, 1896
MORA, MARIANO L., <i>C. E., E. E.</i>	General Electric Co., Schen- ectady, N. Y.	Mar. 20, 1895
MORDEY, WM. MORRIS	Electrician, Brush Electrical Engineer- ing Co., Redholm, Loughborough, London, Eng.	Sept. 22, 1891
MORGAN, CHAS. H.	326 St. Paul St., Baltimore, Md.	Aug. 5, 1896

ASSOCIATE MEMBERS

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Name	Address.	Date of Election.
MOREHOUSE, H. H.	General Manager and Electrician, Alumbrado Electrico de Quezaltenango, Apartado, No. 44, Quezaltenango, Guatemala, C. A.	Feb. 21, 1894
MORLEY, EDGAR L.	Sup't Hatzel & Buehler, 114 5th Ave., New York City.	Sept. 25, 1895
MORRISON, J. FRANK	15 South St., Baltimore, Md.	April 15, 1884
MORSE, GEORGE H.	Wagner Electric Mfg. Co. St. Louis, Mo.	May 15, 1894
MORSS, EVERETT	Vice-President, Simplex Electric Co., 303 Marlboro St., Boston, Mass	Sept. 22, 1891
MORTON, HENRY, <i>Ph.D.</i>	President of Stevens Institute of Technology, Hoboken, N. J.	May 24, 1887
MOSES, DR. OTTO A.	Electrician, 1037 Fifth Ave., New York City.	May 17, 1887
MOSES, PERCIVAL ROBERT,	<i>E. E.</i> Consulting Electrical Engineer, 120 Broadway : residence, 46 West 97th St., New York City.	Dec. 19, 1894
MOSMAN, CHAS. T.	Power and Mining Engineering Dep't., General Electric Co.; residence, 406 Union St., Schenectady, N. Y.	Mar. 20, 1895
MOSSCROP, WM. A., <i>M. E.</i>	Electrical Engineer, care R. W. Pope, Sec'y, 26 Cortlandt St., N. Y. City.	May 7, 1889
MOTT, S. D.	Electrical Engineer and Inventor, Passaic, N. J.	Sept. 20, 1893
MUNNS, CHAS. K.	Electrician, Strowger Autom. Tel. Exchange, 947 Rookery, Chicago, Ill.	Nov. 21, 1894
MUSTIN, HERBERT S.	[Address unknown.]	Dec. 20, 1893
MYERS, L. E.	Secretary and Treasurer, Electrical Installation Co., 917 Monadnock Building, Chicago, Ill.	Sept. 19, 1894
NEWBURY, F. J.	Manager Insulated Wire Department, John A. Roebbing's Sons Co., Trenton, N. J.	Sept. 23, 1896
NICHOLSON, WALTER W.	General Supt. Central N. Y. Telephone and Telegraph Co., 73 Howard Ave., Utica, N. Y.	May 15, 1894
NOCK, GEO. W.	Chief Engineer, in charge of Steam and Electric Plant Westinghouse Elect. and Mfg. Co., Pittsburg, Pa.	Aug. 5, 1896
NORTON, ELBERT F.	With Card Electric Motor and Dynamo Co., 622-3 Western Union Building, Chicago, Ill.	Dec. 20, 1893
NOXON, C. PER LEE	Contracting Electrical Engineer, 504 Townsend St., Syracuse, N. Y.	Oct. 17, 1894
NUNN, RICHARD J., <i>M.D.</i>	Physician, 119½ York St., Savannah, Ga.	July 12, 1887
NYHAN, J. T.	Superintendent and Electrician, Macon and Indian Spring Electric Railway, Macon, Ga.	Feb. 27, 1895
OCKERSHAUSEN, H. A.	Electrical Engineer, 65 Madison Ave., Jersey City, N. J.	Sept. 6, 1887

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
OLAN, THEODOR, J. W.	Civil and Electrical Engineer, 68 West 49th St., New York City.	May 16, 1893
OLIVETTI, CAMILLO	Ingegnere Industriale, Ivrea, Italy.	Oct. 17, 1894
ORMSBEE, ALEX. F.	Electrical Engineer; residence, 183 Joralemon St., Brooklyn, N. Y.	June 27, 1895
OSBORNE, LOYALL ALLEN	Assistant Superintendent, Westinghouse Electric and Mfg. Co., Pittsburgh, Pa.	Oct. 18, 1893
OSTERBERG, MAX, E. E., A. M.	Consulting Engineer, and Electrical Expert, 27 Thames St.; residence, 113 E. 65th St., New York City.	Jan. 17, 1894
O'SULLIVAN, M. J.	Superintendent, Electric Light, B. & O. R. R. Co.; residence, 227 Mount St., Baltimore, Md.	Mar. 20, 1895
OTTEN, DR. JAN D.	Engineer, Union Elektricitats Gesellschaft, Kurfürstenstrasse 97 III, Berlin, W. Germany.	Nov. 18, 1890
OWENS, R. B.	Professor of Electrical Engineering, University of Nebraska, Lincoln, Neb.	June 17, 1890
PAGE, A. D.	Assistant Manager, General Electric Co. Lamp Works, Harrison, N. J.	Jan. 19, 1892
PARCELLE, ALBERT L.	Electrician and Inventor, 157 Washington St., Boston, Mass.	Dec. 16, 1891
PARKER, HERSCHEL C.	Tutor in Physics, Columbia University, 21 Fort Green Pl., Brooklyn, N. Y.	April 19, 1892
PARMLY C. HOWARD, S. M., E. E.	College of the City of New York, 17 Lexington Ave.; residence, 344 W. 29th St., New York City.	Feb. 21, 1893
PARRY, EVAN	Engineer, The British Thomson-Houston Ltd., Sunningdale, Fitzgerald Ave., Barnes, London, Eng.	Sept. 25, 1895
PARSELL, HENRY V., JR.	31 E. 21st St., New York City.	Nov. 12, 1889
PATTON, PRICE I.	Sheble & Patton, Ltd., 1026 Filbert St.; residence, 3926 Walnut St., Philadelphia, Pa.	Mar. 20, 1895
PECK, EDWARD F.	15 Cortlandt Street, New York City; residence, 87 Monroe St., Brooklyn, N. Y.	May 20, 1890
PEDERSEN, FREDERICK MALLING	Assistant Electrical Engineer, Crocker-Wheeler Electric Co., Ampere, Newark, N. J.; residence, 327 W. 34th St., New York City.	Sept. 20, 1893
PEIRCE, ARTHUR W. K.	Simmer and Jack Gold Mining Co., Johannesburg, S. A. R.	June 27, 1895
PEIRCE, WM. H.	Assistant Manager, Baltimore Smelting and Rolling Co., Keyser Bldg, German and Calvert Sts., Baltimore, Md.	Sept. 7, 1888
PERKINS, FRANK C.	Electrical Engineer and Contractor, 774 Prospect Ave., Buffalo, N. Y.	Oct. 21, 1890

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
PETTY, WALTER M.	Superintendent Fire Alarm Telegraph, Rutherford, N. J.	May 16, 1893
PFUND, RICHARD	With Western Union Telegraph Co., 195 Broadway, New York City.	April 18, 1893
PHELPS, WM. J.	Electrical Engineer and Contractor, Monadnock Bldg., Chicago; resi- dence, Elmwood, Ill.	Mar. 25, 1896
PHILBRICK, B. W.	Electrician, in charge of Electrical Plant, Hon. Levi P. Morton, Rhine- cliff, N. Y.	May 15, 1894
PHILLIPS, EUGENE F.	President, American Electrical Works, Phillipsdale, Providence, R. I.	July 13, 1889
PHILLIPS, LEO A.	Westinghouse Electric and Mfg. Co., East Pittsburg, Pa.	Mar. 21, 1894
PHISTERER, FRED'K WILLIAM	107 Columbia St., Albany, N. Y.	Nov. 20, 1895
PINKERTON, ANDREW	Electrical Engineer, The Apollo Iron and Steel Co., Apollo, Pa.	Sept. 25, 1895
PLUMB, CHARLES	Proprietor and Electrician, The Chas. Plumb Electrical Works, 70 West Swan St., Buffalo, N. Y.	June 20, 1894
POOLE, CECIL P.	58 New Street; residence, 206 W. 80th St., New York City.	Jan. 3, 1888
POPE, RALPH WAINWRIGHT	Secretary to the American Institute of Electrical Engineers, 26 Cortlandt St., (Telephone, 2199 Cortlandt), New York City; residence, 570 Cherry St., Elizabeth, N. J.	June 2, 1885
PORTER, H. HOBART, JR.	Agent, Westinghouse Elec. and Mfg. Co., 120 Broadway, New York; resi- dence, Lawrence, L. I.	Mar. 25, 1896
POTTER, HENRY NOEL	Electrician, Steglitzer Strasse, 10 par- terre, Berlin W., Germany.	Sept. 19, 1894
POWELL, PERCY HOWARD	Construction Dep't. New York Tele- phone Co., 18 Cortlandt St., New York City; residence, Hempstead, N. Y.	Sept. 25, 1895
PRICE, CHAS. W.	Editor the <i>Electrical Review</i> , Times Building, New York City; residence, 223 Garfield Place, Brooklyn, N. Y.	Sept 19, 1894
PRICE, EDGAR F.	Electrical Engineer, Carbide Works, Niagara Falls, N. Y.	June 27, 1895
PRINCE, J. LLOYD	868 Flatbush Ave., (Flatbush Station), Brooklyn, N. Y.	Feb. 27, 1895
PRIVAT, LOUIS	Electrician, Cicero Water. Gas and Electric Light Co., Oak Park, Ill.	Dec. 19, 1894
PROCTOR, THOS. L.	General Manager, Riker Electric Motor Co., Brooklyn; residence, Newtown, L. I., N. Y.	April 18, 1894
PUPIN, DR. MICHAEL I.	(<i>Vice-President</i>) Adjunct Professor in Mechanics, Columbia University; residence, 7 Highland Place, Yonkers N. Y.	Mar. 18, 1890

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
RANDALL, JOHN E.	Columbia Incandescent Lamp Co., 1912 Olive St., St. Louis, Mo.	May 7, 1889
RANDOLPH, L. S.	Professor of Mechanical Engineering, Blacksburg, Va.	Feb. 21, 1893
RATHENAU, ERICH	Electrical Engineer, Allg. Electricitäts Gesellschaft, Berlin, Germany.	Nov. 20, 1895
RAY, WILLIAM D.	General Manager Everett Railway and Electric Co., Everett, Washington.	Sept. 27, 1892
READ, ROBERT H.	Patent Attorney, 44 Broad St., New York City.	Jan. 19, 1892
REDMAN, GEO. A.	General Supt., Electric Dept., Brush Elec. Light Co., and Rochester Gas and Elec. Co., Rochester, N. Y.	Feb. 27, 1895
REED, CHAS. J.	Electrician, 3313 N. 15th St., Phila- delphia, Pa.	Mar. 5, 1889
REED, HARRY D.	Electrician, Bishop Gutta Percha Co., 420 East 25th St., New York City; residence, 88 North 9th St., New- ark, N. J.	Sept. 19, 1894
REED, HENRY A.	Secretary and Manager, Bishop Gutta- Percha Co., 422 East 25th St., New York City; residence, 88 North 9th St., Newark, N. J.	June 4, 1889
REID, EDWIN S.	Sup't of Construction, National Under- ground Cable Co., 17 Times Building New York City; residence, 116 W. 11th St.	Feb. 26, 1896
REID, THORBURN	Electrical Engineer, care British Thomson-Houston Co., 18 Parlia- ment St., London, S. W., Eng.	Oct. 21, 1890
REILLY, JOHN C.	General Supt., N. Y. & N. J. Tel. Co., 16 Smith St., Brooklyn, N. Y.	April 15, 1884
RENNARD, JOHN CLIFFORD	A. B. E. E. Consulting and Super- vising Electrical Engineer, 18 Cort- landt St.; residence, 302 W. 73d St., New York City.	Jan. 16, 1895
REQUIER, A. MARCEL	Electrical Engineer, Westinghouse Electric and Manufacturing Co., Pittsburg, Pa.	Dec. 20, 1893
RHODES, S. ARTHUR	Electrician, Chief Testing Department, Chicago Telephone Co., Chicago, Ill.; residence, 429 North Pine Ave., Austin, Ill.	Oct. 17, 1894
RICE, ARTHUR L.	Professor of Steam and Electrical En- gineering, Pratt Institute, Brooklyn, N. Y.	Oct. 21, 1896
RICE, CALVIN WINSOR	Consulting Electrical Engineer, 8 Eaton St., Winchester, Mass.	Jan. 20, 1897
RICHARDS, CHAS. W.	Partner, Cumner-Richards Co., 69 Broad Street, Boston; residence, Needham, Mass.	Sept. 23, 1896
RICHARDSON, ROBERT E.	Electrical Engineer, Pierce & Richard- son, 1409 Manhattan Building; resi- dence, 3622 Michigan Ave., Chicago, Ill.	Sept. 19, 1894

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
RICKER, CHARLES W.	Expert Electrical Engineer, 184 Cleveland Ave., Buffalo, N. Y.	May 15, 1894
RIDEOUT, ALEXANDER C.	L. L. D., 101 Randolph St., Chicago, Ill.	Aug. 5, 1896
RIDLEY, A. E. BROOKE	Agent, Electrical Engineer, Siemens & Halske Electric Co., 10 Front St., San Francisco, Cal.	Nov. 21, 1894
RITTENHOUSE, CHAS. T.	Editor the <i>Electrical World</i> , 253 Broadway; residence, 247 W. 138th St., New York City.	Feb. 21, 1894
ROBERSON, OLIVER R.	Electrician, Western Union Telegraph Co., 195 Broadway, P. O. Box 856, New York City.	Dec. 20, 1893
ROBERTS, WM. H.	413 Harrison St., Cincinnati, O.	Sept. 19, 1894
ROBINSON, ALMON	Draughtsman, Expert in Methods of Gearing, Webster Road, P. O. Box 943, Lewiston, Me.	Sept. 6, 1887
ROBINSON, DWIGHT PARKER	With Stone & Webster, 4 P. O. Square, Boston, Mass.	Sept. 25, 1895
ROBINSON, FRANCIS G.	With Brooklyn Heights R. R. Co.; residence, 156 Macon St., Brooklyn, N. Y.	Nov. 21, 1894
RODMAN, SAMUEL, JR.	(Late 1st Lieut., 2nd U. S. Artillery), Electrician and Expert in High Explosives, Room 106, Pullman, Bldg., Chicago, Ill.	Sept. 16, 1890
ROEBLING, FERDINAND W.	Manufacturer of Electrical Wires and Cables, Trenton, N. J.	June 8, 1887
ROESSLER, S. W.	Captain, Corps of Engineers U. S. A., Willets Point, N. Y.	Dec. 3, 1889
ROLLER, FRANK W. M.E.	Electrical Engineer, Machado & Roller, Electrical Machinery, 203 Broadway, N. Y.; residence, Cranford, N. J.	May 21, 1895
ROPER, DENNEY W.	General Electric Co., Schenectady, N. Y.	June 6, 1893
ROSEBRUGH, THOMAS REEVE	Lecturer in Electrical Engineering, School of Practical Science, Toronto, Ont.	June 26, 1891
ROSENBAUM, WM. A.	Electrical Expert and Patent Solicitor, 177 Times Building, New York City.	Jan. 3, 1889
ROSENBERG, E. M., M. E.	Residence, 138 W. 85th St., New York City.	Oct. 21, 1890
ROSS, TAYLOR WILLIAM	Second Assistant Engineer, U. S. Revenue Cutter Service, Revenue Cutter "McLane," Key West, Fla.	Mar. 25, 1896
ROWLAND, ARTHUR JOHN	Professor of Electrical Engineering, Drexel Institute; residence, 3220 Spencer Terrace, Philadelphia, Pa.	Sept. 19, 1894
ROWLAND, HENRY A.	Professor of Physics, Johns Hopkins University, Baltimore, Md.	Mar. 21, 1894
ROYCE, FRED W.	Electrician and Patent Solicitor, 1410 Pennsylvania Ave., Washington, D. C.	April 15, 1884

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
RUSHMORE, DAVID B.	Foreman, Testing Dep't Royal Electric Co., Montreal, P. Q.	Sept. 25, 1895
RUTHERFORD, W. M.	Chief Engineer, Canadian General Electric Co., 65 Front St., W. Toronto, Can.	Sept. 22, 1891
SACHS, JOSEPH *	Devising and Consulting Electrical Engineer, 32 Nassau St., New York City.	Mar. 15, 1892
SACKETT, WARD M.	Assistant Chief Draughtsman, Chicago Telephone Co., residence 3739 Ellis Ave., Chicago, Ill.	Oct. 17, 1894
SAGE, HENRY JUDSON	Sage & Co., Electrical Engineers, Rochester, Pa.	Dec. 20, 1893
SAHULKA, DR. JOHANN	Docent of Electrotechnics, Technische Hochschule, Vienna, Austria.	Dec. 20, 1893
SAMPSON, F. D.	Manager, Charlotte Electric Light and Power Co., Charlotte, N. C.	Aug. 5, 1896
SANBORN, FRANCIS N.	Torrington, Conn.	Nov. 24, 1891
SANDERSON, EDWIN N.	Of Sanderson & Porter, Engineers and Contractors, 120 Broadway, New York City.	Oct. 17, 1894
SARGENT, HOWARD R.	Electrical Engineer, General Electric Co.; residence, 242 Union Street, Schenectady, N. Y.	Mar. 25, 1896
SATHERBERG, CARL HUGO	Mechanical Engineer and Chief Draughtsman, The Midvale Steel Co., Nicetown, Phila., Pa.; residence 1752 N. 26th St., Philadelphia, Pa.	Aug. 5, 1896
SAWYER, FRED. W.	68 Mount Vernon St., Fitchburg, Mass.	June 27, 1895
SAXELBY, FREDERICK	Electrical Engineer, 288 Summer Ave., Newark, N. J.	June 5, 1888
SCHEIBLE, ALBERT	Manager for George Cutter, 851 The Hookery, Chicago, Ill.	June 20, 1894
SCHLOSSER, FRED. G.	Superintendent of Electric Dept., Laclede Gas Light Co., 411 N. 11th St. Louis, Mo.	Sept. 22, 1891
SCHREITER, HEINR. C. E.	Counsellor and Attorney, 20 Nassau St., New York City.	Jan. 17, 1893
SCHWAB, MARTIN C.	1729 Madison Ave., Baltimore, Md.	Nov. 18, 1896
SCHWABE, WALTER P.	Electrician, Rutherford, Boiling Springs and Carlstadt Electric Co., Carlstadt, N. J.	May 19, 1896
SCIDMORE, FRANK L.	With N. Y. C. & H. R. R. Co., office of A. F. A.; residence, 106 Hawthorne Ave., Yonkers, N. Y.	Dec. 18, 1895
SCOTT, JAMES B.	Electrical and Mechanical Engineer, 227 East German St., Baltimore Md.	Aug. 5, 1896
SEARING, LEWIS	Consulting, Mechanical, and Electrical Engineer, Denver Engineering Works, Denver, Col.	April 3, 1888
SEARLES, A. L.	Engineering Dept., Fort Wayne Electric Corporation, Fort Wayne, Ind.	April 18, 1894

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
SEE, A. B.	A. B. See Manufacturing Co., 116 Front St.; residence, 107 East 19th St., (Flatbush), Brooklyn, N. Y.	Jan. 17, 1893
SEELY, J. A.	Electrical Engineer and Contractor, 121 Liberty St., New York City.	April 15, 1884
SEITZINGER, HARRY M.	Consulting and Constructing Engineer, 6 Northampton St., Wilkes-Barre, Pa.	Sept. 20, 1893
SERRELL, LEMUEL WM.	Mechanical and Electrical Engineer, 99 Cedar St., New York City; residence, Plainfield, N. J.	Nov. 1, 1887
SERVA, A. A.	With Fort Wayne Electric Corporation, 101 The Bourse, Philadelphia, Pa.	Dec. 20, 1893
SHAIN, CHARLES D.	136 Liberty St., New York City.	June 7, 1892
SHARP, CLAYTON H.	Instructor, Department of Physics, Cornell University, 122 University Ave., Ithaca, N. Y.	May 15, 1894
SHARPE, E. C.	Consulting Electrical Engineer, 524 S. Broadway, Los Angeles, Cal.	Feb. 26, 1896
SHEDD, JOHN C.	Professor of Physics and Applied Electricity, Marietta College; residence, 512 Fourth St., Marietta, Ohio.	Dec. 19, 1894
SHEEHY, ROBERT J.	President, Sheehy Automatic Railroad Signal Co., 122 Pearl St., Boston, Mass.	April 21, 1891
SHIELDS, W. J.	Consulting Engineer, New Wilmington, Pa.	Sept. 19, 1894
SHOCK, THOS. A. W.	Gen'l Sup't Sacramento Electric Power and Light Co., Sacramento, Cal.	Mar. 20, 1895
SHONNARD, HAROLD W.	[Address unknown.]	Oct. 23, 1895
SIMPSON, ALEXANDER B.	Estimator, N. Y. Electrical Equipment Co., N. Y. City; residence, 125 2nd Place, Brooklyn, N. Y.	May 21, 1895
SISE, CHARLES F.	President, Bell Telephone Co., of Canada, P. O. Box 1918, Montreal, Canada.	June 8, 1887
SKIRROW, JOHN F.	Ass't Manager, Postal Telegraph Cable Co., New York City; residence, 183 N. 19th St., East Orange, N. J.	Sept. 25, 1895
SLADF, ARTHUR J., <i>P.A.D.</i>	Engineer, with George Hill, 44 Broadway; residence, 62 East 66th St., New York City.	Sept. 19, 1894
SLATER, FREDERICK R.	Designing Department, Otis Bros. & Co., 153 Warburton Ave., Yonkers, N. Y.	Oct. 17, 1894
SMITH, CHARLES HENRY, JR.	Box 2, Atlanta, Ga.	Jan. 17, 1894
SMITH, FRANK E.	Chief Electrician, Edison Light and Power Co., 229 Stevenson St., San Francisco, Cal.	Sept. 19, 1894
SMITH, FREDERICK H.	Civil Engineer, 216 Equitable Bldg., Baltimore, Md.	Nov. 12, 1889

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
SMITH, HAROLD BABBITT	Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass.	Nov. 24, 1891
SMITH, J. BRODIE	Supt. and Electrician. Manchester Electric Light Co., 142 Merrimack St., Manchester, N. H.	Mar. 21, 1894
SMITH, J. ELLIOT	Superintendent Fire Alarm Telegraph, 122 W. 73d St., New York City.	April 15, 1884
SMITH, OBERLIN	President and Mechanical Engineer, Ferracute Machine Co., Lochwold, Bridgeton, N. J.	May 19, 1891
SMITH, T. JARRARD	Manager Electrical Dept., The E. S. Greeley & Co.; 7 Dey St., New York City.	April 19, 1892
SPEED, BUCKNER	Assistant Electrical Engineer, Louis- ville Electric Light Co., 1521 4th Street, Louisville, Ky.	Apr. 22, 1896
SPENCER, THEODORE	With Bell Telephone Co., 406 Market St., Philadelphia, Pa.	Mar. 21, 1893
SPRAGUE, FRANK J.	(<i>Past-President.</i>) Vice-Prest. Sprague Electric Elevator Co., Postal Tele- graph Bldg., 253 Broadway and 182 West End Ave., New York City.	May 24, 1887
SPROUT, SIDNEY S.	Electrical Engineer, 328 Montgomery St., San Francisco, Cal.	Jan. 17, 1894
SQUIER, GEORGE O., <i>P.A.D.</i>	1st Lieut., 3d Artillery, Fortress Monroe, Va.	May 19, 1891
STADELMAN, WM. A.	Agent, Elwell-Parker Co., 26 Cortlandt St., New York City.	Feb. 7, 1890
STAHL, TH.	Creusot Works, Creusot, France.	Nov. 15, 1892
STANLEY, WILLIAM	Electrician, Pittsfield, Mass.	Dec. 6, 1887
STANTON, CHAS. H.	With C. H. & H. Stanton Electrical Contractors, 1517 Walnut St.; resi- dence, 134 S. 3d St., Philadelphia, Pa.	Mar. 20, 1895
STEVENS, J. FRANKLIN	Manager, Keystone Electrical Instru- ment Co., 9th St. and Montgomery Ave.; residence, 1419 Walnut St., Philadelphia, Pa.	Sept. 19, 1894
STEWART, ROBERT STUART	Supt. of Lines, Public Lighting Commission, 440 Jefferson Ave., Detroit, Michigan.	Dec. 20, 1896
STEWART, W. M.	Wire Chief, New York Telephone Co., 18 Cortlandt Street, New York City; residence, 301 W. 46th St., Flat 14, New York City.	Mar. 25, 1896
STINE, WILBUR M.	(<i>Vice-President.</i>) Director Electrical Dept., Armour Institute; residence, 635 W. 61st Street, Chicago, Ill.	May 15, 1894
STOCKBRIDGE, GEO. H.	Patent Attorney, 95 Nassau Street; residence, 2514 11th Ave., near 187th St., New York City.	May 24, 1887
STONE, CHARLES A.	With Firm of Stone & Webster, 4 P. O. Sq., Boston, Mass.	May 19, 1891

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
STONE, JOSEPH P.	Electrical Engineer, General Electric Co.; residence, 213 Liberty Street, Schenectady, N. Y.	Dec. 18, 1895
STORER, NORMAN W.	Electrical Engineer, Westinghouse Electric and Mfg. Co., Pittsburg; residence, Wilkinsburg, Pa.	Dec. 18, 1895
STORRS, PROF. H. A.	Professor of Electrical Engineering, University of Vt., Burlington, Vt.	Mar. 21, 1893
STRATTON, ALEX.	Assistant Electrical Engineer, C. & C. Electric Co., Garwood, N. J.; residence 21 East 130th St., New York City.	Mar. 20, 1895
STRAUS, THEODORE	Electrical Eng., General Electric Co., Schenectady, N. Y.; residence, 1213 Linden Avenue, Baltimore, Md.	Nov. 18, 1896
STRAUSS, HERMAN A.	Consulting Electrical and Mechanical Engineer, 54 Maiden Lane; residence, 17 W. 69th St., New York.	Oct. 17, 1894
STRONG, FREDERICK G.	734 Equitable Building, Atlanta, Ga.	Oct. 27, 1891
STURTEVANT, CHARLES L.	Patent Attorney, Atlantic Building, Washington, D. C.	Dec. 20, 1893
SULLIVAN, EDWARD	Supt. Construction, Standard Underground Cable Co., 18 Times Bldg.; residence, 337 W. 18th Street, New York City.	Feb. 26, 1896
SUMMERS, LELAND L.	Electrical Engineer, 441 The Rookery, Chicago, Ill.	Feb. 16, 1892
SVENTORZETZKY, CAPT. LOUDOMIR	Military Engineering Academy, St. Petersburg, Russia.	Sept. 20, 1893
SWENSON, BERNARD VICTOR	Assistant Professor of Electrical Engineering, University of Illinois, Champaign, Ill.	Feb. 27, 1895
SWEET, HENRY N.	Chief of Patent Bureau, Thomson Electric Welding Co., 4 Spruce St., Boston, Mass.	May 20, 1890
SYKES, HENRY H.	Chief Engineer, Bell Telephone Co., of Mo., Telephone Bldg., St. Louis, Mo.	Oct. 18, 1893
TAIT, FRANK M.	Superintendent, Catasauqua Electric Light and Power Co., 731 3d St., Catasauqua, Pa.	Sept. 19, 1894
TAPLEY, WALTER H.	Electrician in Government Printing Office, care of Public Printer, Washington, D. C.	Oct. 25, 1892
TEMPLE, WILLIAM CHASE	Mechanical and Electrical Engineer, Lewis Block, P. O. Box 800, Pittsburg, Pa.	May 3, 1887
TESLA, NIKOLA	Electrical Engineer and Inventor, 46 E. Houston St., The Gerlach, 53 W. 27th St., New York City.	June 5, 1888
THAYER, GEORGE LANGSTAFF	Manager, Belle Plaine Electric Light Co., Belle Plaine, Ia.	Aug. 5, 1896

ASSOCIATE MEMBERS

Name.	Address.	Date of Election.
THOMAS, ROBERT MCKEAN, E. E.	Assistant Chief Inspector, Bureau of Electrical Appliances, N. Y. Fire Dept.; residence, 135 Madison Ave., New York City.	April 22, 1896
THOMPSON, WILLIAM GEO.	MACNEILL Resident Engineer, Sault Ste. Marie Canal, St. Catharines, Ont.	July 12, 1887
THORDARSSON, CHESTER H.	Chicago Edison Co.; residence, 284 Rush St., Chicago, Ill.	Dec. 18, 1895
THRESHER, ALFRED A.	Electrical Engineer and Proprietor Thresher Electric Co., Dayton, O.	April 22, 1896
THURBER, HOWARD F.	General Superintendent, New York Telephone Co., 18 Cortlandt Street, New York City; residence, 49 Sidney Place, Brooklyn, N. Y.	Mar. 25, 1896
TOERRING, C., JR.	Electrical Engineer, Helios Electric Co., 1614 Green St., Philadelphia, Pa.	April 18, 1894
TORCHIO, PHILIPPO	Engineering Dep't, The Edison Elec. Illuminating Co., 53 Duane Street, New York City.	June 27, 1895
TOWER, GEORGE A.	Electrical Engineer, The Sherwood Land Co., and The Jefferson Hotel Co., 109 S. First St., Richmond, Va.	May 15, 1894
TOWNSEND, HENRY C.	Attorney and Expert in Electrical Cases, 5 Beekman St., New York City.	July 10, 1888
TREADWELL, AUGUSTUS, JR.	Private Assistant, Polytechnic Institute, 488 3d St., Brooklyn, N. Y.	Feb. 21, 1894
TROTT, A. H. HARDY [Life Member.]	Beer, near Axminster, Devonshire, Eng.	Jan. 20, 1891
TUTTLE, GEORGE W.	Electrical Engineer, Sawyer-Man Electric Co., 510 W. 23d St.; residence, 328 W. 23d St., New York City.	Mar. 17, 1891
VAIL, THEO. N.	26 Cortlandt St., New York City.	April 15, 1884
VAN BUREN, GURDON C.	Electrician and Electrical Contractor, 84 Clinton Ave., Albany, N. Y.	Oct. 25, 1892
VANDEGRIFT, JAMES A.	Westinghouse Electric and Mfg. Co., residence, 158 Ridge Ave., Allegheny, Pa.	Nov. 24, 1891
VANDERSLICE, G. HAMILTON	326 Penn Avenue, Pittsburg, Pa.	Dec. 19, 1894
VAN VLECK, FRANK	President, Van Vleck Tramway Co., Wells Fargo Bldg., Los Angeles, Cal.	Nov. 16, 1886
VAN VLECK, JOHN FALCONER	Constructing Engineer, The Edison Electric and Illuminating Co. of New York; residence, Glenridge, N. J.	Aug. 5, 1896
VAN WYCK, PHILIP V. R., JR.	Plainfield, N. J.	April 21, 1891
VARLEY, THOMAS W.	Electrician, United Electric Light and Power Co., 210 Elizabeth St., New York City.	Sept. 19, 1894
VARNEY, WILLIAM WESLEY	Attorney at Law, Electrical Expert, 118 East Lexington St.; residence, 1001 Harlem Ave., Baltimore, Md.	Nov. 21, 1894

ASSOCIATE MEMBERS

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Name.	Address.	Date of Election.
VERLEY, HORACE S. L.	With Dr. Wm. E. Geyer, as Laboratory Assistant, Stevens Institute, Hoboken, N. J.; 136 Liberty St., New York City.	May 17, 1892
VOIT, DR. ERNST	Professor of Electricity, Technical University, Schwanthalerstrasse, Munchen, Germany.	Mar. 21, 1894
VOSMAER, ALEXANDER	Mechanical, Chemical and Electrical Engineer, The General Ozone and Electric Supply Co., Suerkade 104, The Hague, Holland.	Nov. 18, 1896
WACKER, GEORGE G.	1340 Vanderbilt Ave., New York City.	Sept. 6, 1887
WAGNER, EDWARD ANDREWS.	Electrician, The Mexican International R. R. Co., Eagle Pass, Texas	Jan. 22, 1896
WALKER, ARTHUR F.	Sup't and Electrical Engineer, Edison Light Co., Grand Rapids, Mich.	Oct. 23, 1895
WALLACE, CHAS. F.	Engineer, Stone and Webster, Boston, Mass.; residence, 62 Forest Street, Roxbury, Boston, Mass.	Nov. 18, 1896
WALLACE, GEO. S.	Telegraph Office Manager, Chesapeake & Ohio Ry. Co., Box 214, Huntington, W. Va.	Oct. 25, 1892
WALLACE, WILLIAM	Wire Manufacturer, Ansonia, Conn.	April 15, 1884
WARDELL, GEORGE PHELPS	Secretary, Department of Science and Technology, Pratt Institute, Brooklyn, N. Y.	Nov. 12, 1889
WARDLAW, GEORGE A.	412 East Willow St., Syracuse, N. Y.	Jan. 17, 1894
WARING, RICHARD S.	Standard Underground Cable Co., 61 Westinghouse Bldg., Pittsburg, Pa.	April 15, 1884
WARNER, CHAS. H.	Consulting Electrical Engineer, 50 Broadway, New York City.	Dec. 20, 1893
WARREN, ALDRED K.	Proprietor, A. K. Warren & Co., 465 Greenwich St., New York; residence New Brighton, S. I., N. Y.	Nov. 20, 1895
WASON, CHAS. W.	Electrical Engineer and Purchasing Agent, Cleveland Electric R. R. Co., 2069 Euclid Ave., Cleveland, O.	May 19, 1891
WASON, LEONARD C.	Vice-Prest., The Aberthaw Co., 31 State Street, Boston; residence, 199 Harvard St., Brookline, Mass.	Dec. 20, 1893
WATERS, EDWARD G.	Resident Manager, General Electric Co., 308 Times Bldg., Pittsburg, Pa.	Mar. 18, 1890
WATSON, ROBERT	Patent Attorney, 931 F. St., N. W., Washington, D. C.	Oct. 21, 1890
WATTS, H. FRANKLIN	Electrical Engineer and Contractor, 5171 Heston St., Philadelphia, Pa.	May 20, 1890
WEAVER, NORMAN R.	Box 87, Selma, Ala.	Oct. 25, 1892
WEBB, HENRY STORRS	Instructor in Electrical Engineering, Lehigh University, South Bethlehem, Pa.	Nov. 20, 1895

ASSOCIATE MEMBERS.

Name.	Address.	Date of Election.
WEBSTER, DR. ARTHUR G.	Assistant Professor of Physics, Clark University, 936 Main St., Worcester, Mass.	Jan. 19, 1892
WEBSTER, EDWIN S.	Firm of Stone & Webster, 4 P. O. Sq., Boston, Mass.	April 21, 1891
WENDLE, GEORGE E.	760 W. 4th St., Williamsport, Pa.	Feb. 21, 1894
WEST, JULIUS HENRIK	Engineer, Handjery St., 58 Friedenau, Berlin, Germany.	Sept. 20, 1893
WELLES, FRANCIS R.	Manufacturer, 46 Avenue de Breteuil, Paris, France.	Sept. 6, 1887
WHARTON, HUGH M.	Electrical Engineer, 69 Christopher St., Montclair, N. J.	May 15, 1894
WHITAKER, S. EDGAR	Electrical Engineer and Contractor, 58 Oliver St., Fitchburg, Mass.; residence, 93 High Rock Avenue, Lynn, Mass.	Aug. 5, 1896
WHITE, CHAS. G.	Public Schools Sup't, and Instructor in Physics and Chemistry, Lake Linden, Mich.	Sept. 23, 1896
WHITE, J. G.	J. G. White & Co., Electrical Engineers and Contractors, 29 Broadway, New York City.	April 2, 1889
WHITE, WILL F.	Electrical Engineer, Vice-President, New Omaha T.-H. Electric Light Co., 309 So. 13th St., Omaha, Neb.	Feb. 7, 1890
WHITING, ALLEN H.	Electrical Engineer, Riker Electric Motor Co., Brooklyn, N. Y.; residence, Stamford, Conn.	Nov. 18, 1896
WHITMORE, W. G.	Electrical Engineer, General Electric Co., Edison Building, Box 3067, New York City.	Mar. 18, 1890
WHITNEY, HENRY M. [Life Member.]	81 Milk St., Boston, Mass.	July 12, 1887
WIESE, GUSTAV ADOLPH	City Electrician of Alameda, 718 Haight Ave., Alameda, Cal.	Sept. 25, 1895
WIGHTMAN, MERLE J.	Electrical Engineer, The Staten Island Midland Railway Co., Stapleton, N. Y.	Mar. 5, 1889
WILEY, WALTER S.	Engineer, with the American Waterworks, 1107 No. 40th St., Omaha, Neb.	April 18, 1894
WILEY, WM. H.	Scientific Expert, 53 E. 10th St., New York City.	Feb. 7, 1888
WILLIAMS, CHARLES JR.	Electrician, 1 Arlington Street, East Somerville, Mass.	April 15, 1884
WILLIAMSON, G. DEWITT	Dobbs Ferry, N. Y.	April 18, 1893
WILSON, CHESTER P.	Chief Engineer, East St. Louis Plant, Swift & Co., 31 Nicholson Place, St. Louis, Mo.	Sep. 25, 1895
WINAND, PAUL A. N.	Engineer and Supt., Schleicher, Schumm & Co., 3200 Arch St., Philadelphia, Pa.	June 20, 1894

ASSOCIATE MEMBERS.

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Name.	Address.	Date of Election.
WINCHESTER, SAMUEL B.	9 Laurel St., Holyoke, Mass.	May 15, 1894
WINSLOW, I. E.	The General Traction Company, Ltd., 35 Parliament Street, Westminster, London, Eng.	Nov. 12, 1889
WINTRINGHAM, J. P.	Theorist, 36 Pine St., New York City, and 153 Henry St., Brooklyn, N. Y.	May 7, 1889
WIRT, HERBERT C.	Engineer, Supply Department, General Electric Co., Schenectady, N. Y.	June 26, 1891
WOODWARD, FRANCKE L.	Electrical Engineer, 49 Grand Street, Albany, N. Y.	June 26, 1891
WOODWARD, W. C.	Electrical Engineer, Narragansett Electric Lighting Co.; residence, 21 Arlington Ave., Providence, R. I.	Nov. 18, 1896
WOOLF, ALBERT E.	Electrician and Inventor, Woolf Elec- tric Disinfecting Co. of N. Y., 66 Broad St., New York City.	Sept. 16, 1890
WORSWICK, A. E.	Electrical Engineer, London and For- eign Tramways Syndicate (Ltd.) Port Elizabeth, So. Africa.	Sept. 20, 1893
WRAY, J. GLEN	Cable Tester, Chicago Telephone Co., 162 Centre St., Chicago, Ill.	Sept 20, 1893
WRIGHT, LOUIS S.	The Landsowne, 41st St., and Park- side Ave., Philadelphia, Pa.	Nov. 18, 1896
WYBRO, HARRISON C.	Electrical Engineer, Wybro & Lawrence, 522 So. Broadway, Los Angeles, Cal.	Dec. 18, 1895
YARNALL, V. H.	Superintendent of Construction, for L. W. Serrell, 99 Cedar St., New York City.	May 16, 1893
YOUNG, CHARLES I.	Electrical Engineer, Westinghouse Elec. & Mfg. Co., Girard Building, Philadelphia, Pa.	June 27, 1895
YSLAS, CARLOS	Electrician of Railway in Jalapa, Vera Cruz, Mexico.	Nov. 18, 1896
ZALINSKI, EDMUND L.	Captain of Artillery, U. S. A., (retired), The Century, 7 West 43d St., New York City.	May 17, 1887
ZIMMERMAN, LAURENCE J.	Electrical Engineer and Inventor, 57 Pennsylvania Ave., Brooklyn, N. Y.	Mar. 21, 1893

Associate Members, - - - 702.

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landt, New York City.

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Honorary Members,	- - - - - 2
Members,	- - - - - 348
Associate Members,	- - - - - 712
Total	- - - 1062

DIED.

BREITHAUPT.—At Berlin, Ontario, Wednesday, January 27th, 1897, Ezra Carl Breithaupt, aged 30 years 11 months and 8 days. Mr. Breithaupt was elected an associate member of the INSTITUTE June 6th, 1893, and transferred to membership May 19, 1896.

NOTICE.

This catalogue of members, revised to February 1st, 1897, is distributed during the first week of February, in compliance with Article V of the Constitution, governing the election of officers.

The same list will form part of the Annual Volume for 1896, but corrections may still be made if sent to the Secretary at once.

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